YAMAHA

DIGITAL KEYBOARD

EZ-220

Owner's Manual

GENERAL MIDI XG XGlite

Thank you for purchasing this Yamaha Digital Keyboard!
We recommend that you read this manual carefully so that you can fully take advantage of the advanced and convenient functions of the instrument.
We also recommend that you keep this manual in a safe and handy place for future reference.
Before using the instrument, be sure to read “PRECAUTIONS” on pages 4–5.

EN

Playing the Keyboard
Basic Section
Try out various functions
Computer/iPad
Appendix

SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

WARNING: Do not place this product in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. NOTE: The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:
The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

Some Yamaha products may have benches and / or accessory mounting fixtures that are either supplied with the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured BEFORE using.
Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

NOTICE:
Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:
Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:
This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, never mix old batteries with new ones, and never mix different types of batteries. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

Warning:
Do not attempt to disassemble, or incinerate any battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by the laws in your area. Note: Check with any retailer of household type batteries in your area for battery disposal information.

Disposal Notice:
Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:
The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model ____________________

Serial No. ____________________

Purchase Date ____________________

PLEASE KEEP THIS MANUAL

92-BP (bottom)

FCC INFORMATION (U.S.A.)

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:
Relocate either this product or the device that is being affected by the interference.
Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.
If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620
The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (class B)

OBSERVERA!
Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

ADVARSEL: Netspændingen til dette apparat er IKKE afbrudt, sålænge netledningen sidder i en stikkontakt, som er tændt — også selvom der er slukket på apparatets afbryder.

VAROITUS: Laitteen toisiopiiriin kytketty käyttökytkin ei irroita koko laitetta verkosta.

(standby)

The name plate of this product may be found on the bottom of the unit. The serial number of this product may be found on or near the name plate. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No. ______________________

Serial No. ______________________

(bottom_en)

COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party :	Yamaha Corporation of America
Address :	6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone :	714-522-9011
Type of Equipment :	Digital Keyboard
Model Name :	EZ-220

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
1) this device may not cause harmful interference, and
2) this device must accept any interference received including interference that may cause undesired operation.
See user manual instructions if interference to radio reception is suspected.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(FCC DoC)

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.
For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]
If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):
This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

(weee_battery_eu_en)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.

⚠ *WARNING*

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/AC power adaptor

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (page 54) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

Do not open

- This instrument contains no user-serviceable parts. Do not open the instrument or attempt to disassemble or modify the internal components in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the instrument to rain, use it near water or in damp or wet conditions, place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

Battery

- Follow the precautions below. Failure to do so might result in explosion, fire, overheating or battery fluid leakage.
  - Do not tamper with or disassemble batteries.
  - Do not dispose of batteries in fire.
  - Do not attempt to recharge batteries that are not designed to be charged.
  - Keep the batteries separate from metallic objects such as necklaces, hairpins, coins, and keys.
  - Use the specified battery type (page 54) only.
  - Use new batteries, all of which are the same type, same model, and made by the same manufacturer.
  - Always make sure all batteries are inserted in conformity with the +/- polarity markings.
  - When the batteries run out, or if the instrument is not to be used for a long time, remove the batteries from the instrument.
  - When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.
- Keep batteries away from small children who might accidentally swallow them.
- If the batteries do leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, or skin, wash immediately with water and consult a doctor. Battery fluid is corrosive and may possibly cause loss of sight or chemical burns.

If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. (If you are using batteries, remove all batteries from the instrument.) Then have the device inspected by Yamaha service personnel.
  - The power cord or plug becomes frayed or damaged.
  - It emits unusual smells or smoke.
  - Some object has been dropped into the instrument.
  - There is a sudden loss of sound during use of the instrument.

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⚠ CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

Power supply/AC power adaptor

- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

Location

- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.
- Use only the stand specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

Connections

- Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.
- Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

Handling caution

- Do not insert a finger or hand in any gaps on the instrument.
- Never insert or drop paper, metallic, or other objects into the gaps on the panel or keyboard. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.
- Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.
- Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the instrument, or data that is lost or destroyed.

Always turn the power off when the instrument is not in use.
Even when the [⏻] (Standby/On) switch is in standby status (display is off), electricity is still flowing to the instrument at the minimum level.
When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet.
Make sure to discard used batteries according to local regulations.

NOTICE

To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below.

■ Handling and Maintenance

- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° – 40°C, or 41° – 104°F.)
- Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.
- When cleaning the instrument, use a soft, dry cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Information

■ About copyrights

- Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.
- This product incorporates and bundles computer programs and contents in which Yamaha owns copyrights or with respect to which it has license to use others' copyrights. Such copyrighted materials include, without limitation, all computer software, style files, MIDI files, WAVE data, musical scores and sound recordings. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws. Any violation of copyright has legal consequences. DON'T MAKE, DISTRIBUTE OR USE ILLEGAL COPIES.

■ About functions/data bundled with the instrument

- Some of the preset songs have been edited for length or arrangement, and may not be exactly the same as the original.

■ About this manual

- The illustrations and LCD screens as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Apple, Mac, Macintosh and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

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About the Manuals

■ Included Documents

Owner's Manual (this book)
This document explains how to use the instrument.

Song Book
You can refer to the music scores in the Song Book.

■ Online Materials (Downloadable from the web)

MIDI Reference
This document contains both the MIDI Data Format and the MIDI Implementation Chart.

MIDI Basics (only in English, French, German and Spanish)
If you want to know more about MIDI and how to use it, refer to this introductory book.

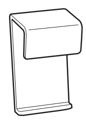
The online materials above are available for downloading from the Yamaha website.

Yamaha Manual Library
http://www.yamaha.co.jp/manual/

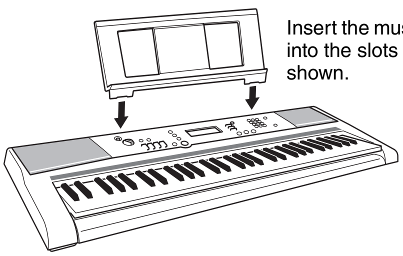
Access the Yamaha Manual Library, then enter your model name (EZ-220, for example) in the Model Name area to search the manuals.

Supplied Accessories

- Owner's manual (this book)
- Song Book
- Music rest
- Clip
- Felt pad
- AC Power Adaptor
  * May not be included depending on your particular area. Please check with your Yamaha dealer.
- My Yamaha Product User Registration
  * You will need the PRODUCT ID on the sheet in order to fill out the User Registration form.


Clip (page 42)

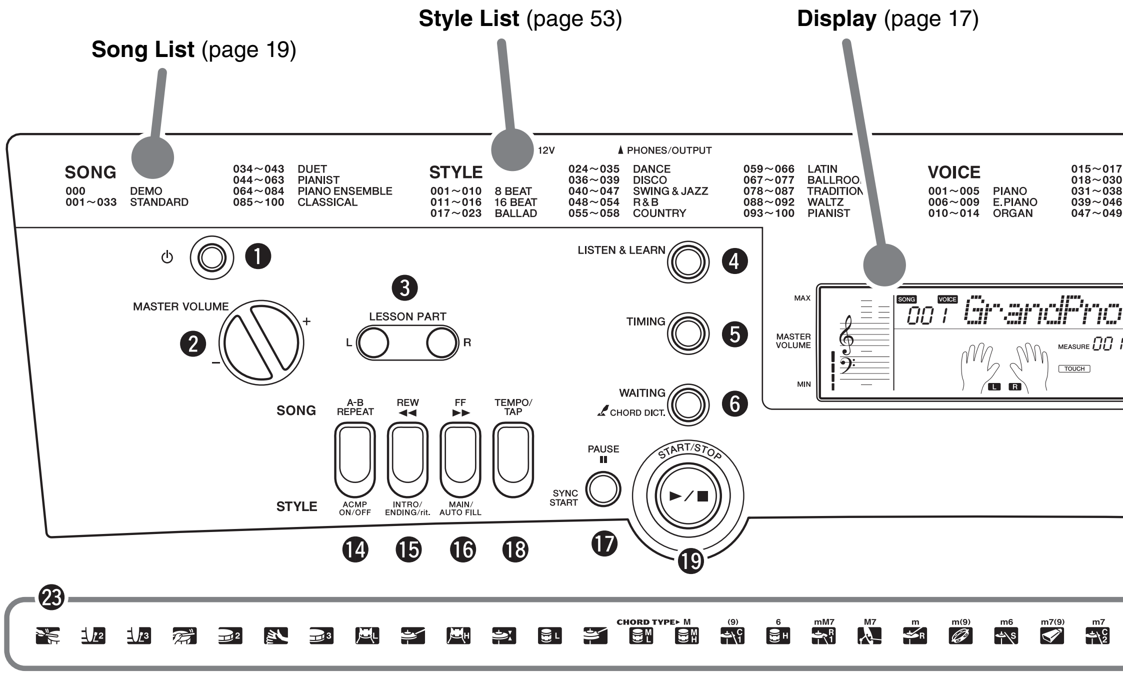
Using the Music Rest



Insert the music rest into the slots as shown.

Contents

Front Panel



❶ **[⏻](Standby/On) switch**...................... page 11
Turns the power on or standby.

❷ **MASTER VOLUME [+], [-] buttons**....... page 12
Adjusts the overall volume.

❸ **LESSON PART [L], [R] buttons** ... pages 22, 25
Selects a Lesson Part or a Part for muting in the current Song.

❹ **[LISTEN & LEARN] button**...................page 24
Starts the Song with the Lesson 1 mode.

❺ **[TIMING] button**...................................page 24
Starts the Song with the Lesson 2 mode.

❻ **[WAITING] button** .... pages 24, 38(✎)
Starts the Song with the Lesson 3 mode.

❼ **[FUNCTION] button**.............................page 15
Pressing this repeatedly calls up various parameters in sequence.

❽ **[SONG] button**........................pages 18, 22(✎)
Enters the Song mode, allowing you to select a Song.

❾ **[STYLE] button**...................... pages 34, 39(✎)
Enters the Style mode, allowing you to select a Style.

❿ **[VOICE] button** ....pages 18(✎), 26
Calls up the Voice selection display.

⓫ **Number buttons [0]–[9], [+], [-]** ....page 16
Selects the setting value for items such as Voice, Style, Song and Tempo.

⓬ **[DEMO] button**.............................. page 18(✎)
Starts/stops playback of all the preset Songs in numerical order.

⓭ **[METRONOME ON/OFF] button**
....pages 32, 33(✎)
Starts/stops the metronome.

In the Song mode

⓮ **[A-B REPEAT] button**...........................page 21
Turns Song Repeat playback on/off.

⓯ **[REW] button**.......................................page 20
Returns to an earlier point in the Song.

⓰ **[FF] button**..page 20
Rapidly skips ahead to a later point in the song.

⓱ **[PAUSE] button** ....page 20
Stops Song playback at the current position. Pressing this button while stopping will resume playback from the current point.

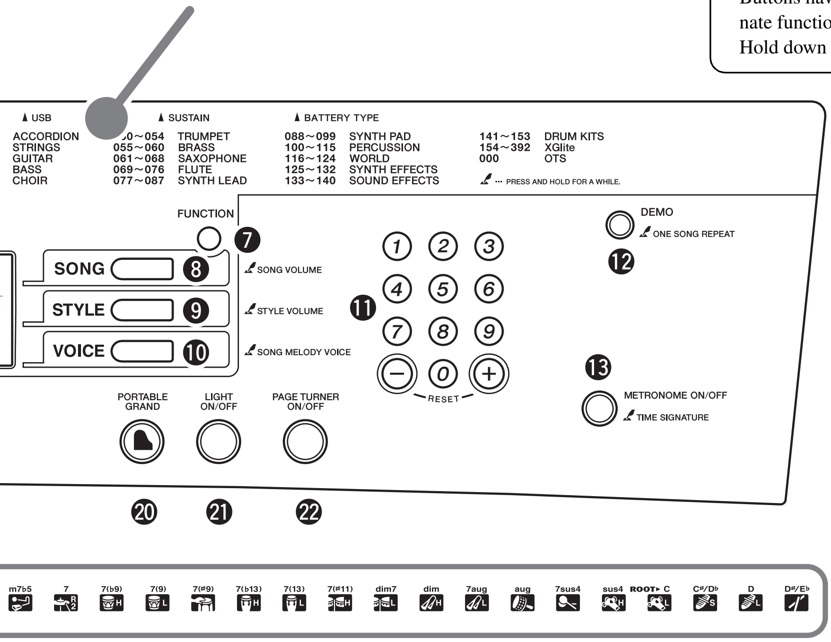
In the Style mode

⓮ **[ACMP ON/OFF] button** ....page 34
Splits the keyboard into the left-hand (Chord) and right-hand (Melody) sections.

⓯ **[INTRO/ENDING/rit.] button**.................page 36
By pressing this when the Style is stopped, you can start playback from the Intro. By pressing this during Style playback, you can switch playback to the Ending. By pressing this during Ending playback, you can apply a tempo ritardando to playback.

⓰ **[MAIN/AUTO FILL] button**....................page 36
Switches between the Main A and Main B of the Style. During playback, a Fill-in is added when you press this button.

Voice List (page 45)



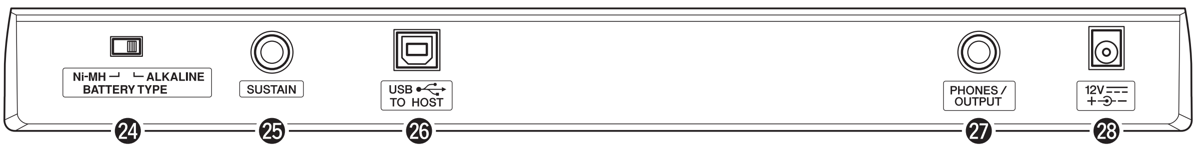
> **The "PRESS AND HOLD FOR A WHILE" Symbol**
> Buttons having this indication can be used to call up an alternate function when the relevant button is pressed and held. Hold down this button until the function is called up.

● Formats

GM System Level 1
"GM System Level 1" is an addition to the MIDI standard which ensures that any GM-compatible music data can be accurately played by any GM compatible tone generator, regardless of manufacturer. The GM mark is affixed to all software and hardware products that support GM System Level.

XGlite
As its name implies, "XGlite" is a simplified version of Yamaha's high-quality XG tone generation format. Naturally, you can play back any XG song data using an XGlite tone generator. However, keep in mind that some songs may play back differently compared to the original data, due to the reduced set of control parameters and effects.

Rear Panel



⑰ **[SYNC START] button** .... pages 35, 36
Enables/disables the ability to start playback by simply playing the keyboard.

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⑱ **[TEMPO/TAP] button** .... page 20
Calls up the Tempo display. With this status, use the Number buttons to set the tempo of the Song, Style and metronome. You can set the tempo also by tapping this button several times at the desired tempo.

⑲ **[START/STOP] button** .... pages 18, 35
Starts/stops Song or Style playback.

⑳ **[PORTABLE GRAND] button** .... page 26
Sets the entire keyboard to the appropriate settings for piano performance.

㉑ **[LIGHT ON/OFF] button** .... page 23
Turns on/off the Light Guide. When turned on, the keys you press or those specified by Song data light.

㉒ **[PAGE TURNER ON/OFF] button** .... page 42
Turns on/off the Page Turner function. When turned on, the notation score of the Preset Songs are shown on the iPad screen and the page turns automatically according to Song playback.

㉓ **DRUM KIT icons** .... page 27
Indicates drum instruments assigned to each key when the Standard Kit 1 is selected.

Rear Panel

㉔ **BATTERY TYPE switch** .... page 10
For selecting battery type.

㉕ **SUSTAIN jack** .... page 27
For connecting an optional Footswitch.

㉖ **USB TO HOST terminal** .... page 40
For connecting a computer.

㉗ **PHONES/OUTPUT jack** .... page 11
For connecting headphones and external audio equipment.

㉘ **DC IN 12V jack** .... page 10
For connecting the power adaptor.

Power requirements

Although the instrument will run either from an optional AC adaptor or batteries, Yamaha recommends use of an AC adaptor whenever possible. An AC adaptor is more environmentally friendly than batteries and does not deplete resources.

■ Using an AC Power Adaptor

1 Make sure that the power of the instrument is off (display is blank, except for notation staff).

⚠ WARNING

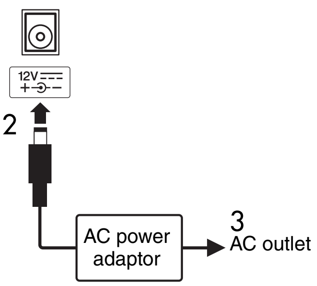
- **Use the specified adaptor (page 54) only. Using the wrong adaptor can result in damage to the instrument or overheating.**

2 Connect the AC adaptor to the DC IN 12V jack.

3 Plug the AC adaptor into an AC outlet.

⚠ CAUTION

- **When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.**



■ Using Batteries

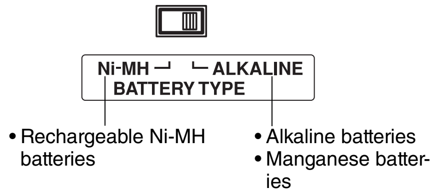
This instrument requires six "AA" size, Alkaline (LR6)/Manganese (R6) batteries, or rechargeable nickel-metal hydride batteries (rechargeable Ni-MH batteries). The Alkaline batteries or rechargeable Ni-MH batteries are recommended for this instrument, since other types may result in poorer battery performance.

⚠ WARNING

- **When using Ni-MH batteries, follow the instructions that came with the batteries. Use only the specified charger device when charging.**

1 Make sure that the power of the instrument is off (display is blank, except for notation staff).

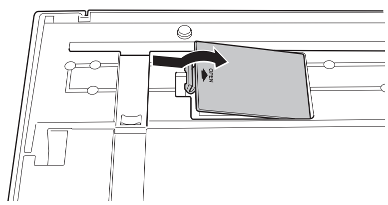
2 Set the [BATTERY TYPE] switch on the rear panel to "Ni-MH" or "ALKALINE" depending on the battery type you are using.



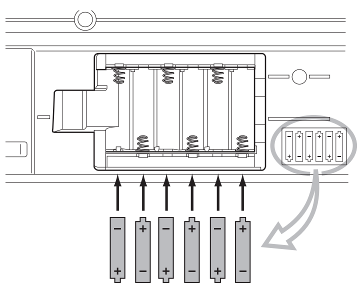
NOTICE

- **The rechargeable battery may be damaged or the battery life may be shortened if you set the [BATTERY TYPE] switch to a position different from the actual battery type.**

3 Open the battery compartment cover located on the instrument's bottom panel.



4 Insert the six new batteries, being careful to follow the polarity markings on the side of the compartment.



5 Replace the compartment cover, making sure that it locks firmly in place.

NOTICE

- **Never connect or disconnect the AC power adaptor when the batteries are installed and the power is on. Doing so will turn the power off, and may cause the settings to be initialized.**

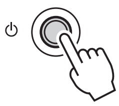
When battery power becomes too low for proper operation, the volume may be reduced, the sound may be distorted, and other problems may occur.
When this happens, make sure to replace all batteries with new ones or already-recharged ones.

NOTE
- *This instrument cannot charge the batteries. Use only the specified charger device when charging.*

NOTE
- *Power will be automatically drawn from the AC adaptor if an AC adaptor is connected while batteries are installed in the instrument.*

Turning the power on/off

To turn on the power, press the [⏻] (Standby/On) switch. To turn off the instrument, press and hold the [⏻] (Standby/On) switch again for more than a second.



⚠ CAUTION
- **Even when the power switch is turned off (the display is blank), electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet, and remove all the batteries from the instrument.**

Auto Power Off

To prevent unnecessary power consumption, this instrument features an Auto Power Off function that automatically turns the power off if the instrument is not operated for approximately 30 minutes. If you do not want to use the Auto Power Off function, disable the function as described below. Please note that the setting will be restored to the default setting of "on" whenever the power is turned on.

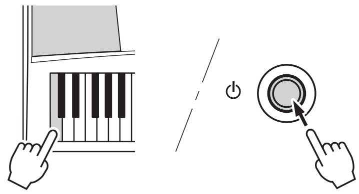
■ Disabling or enabling the Auto Power Off Setting

1. Press the [FUNCTION] button repeatedly until "AutoOff" appears in the display.
2. Set the value "oFF" (disable) or "on" (enable) by pressing the [+] and [-] buttons.

   Default setting: on

■ Disabling Auto Power Off (simple method)

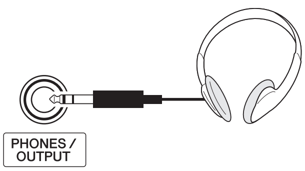
Turn the power on while holding down the lowest key on the keyboard. An "oFF AutoOff" indication appears briefly and Auto Power Off is disabled.



NOTICE
- **Depending on the instrument status, the power may not turn off automatically, even after the specified period of time elapses. Always turn off the power manually when the instrument is not in use.**
- **When the instrument is not operated for a specified period of time while connected to an external device such as an amplifier, speaker or computer, make sure to follow the instructions in the Owner's Manual for turning off the power to the instrument and the connected devices, in order to protect the devices from damage. If you do not want the power to turn off automatically when a device is connected, disable Auto Power Off.**

Connecting headphones and external audio equipment

Any pair of stereo headphones with a 1/4" stereo phone plug can be plugged in here for convenient monitoring. The speakers are automatically shut off when a plug is inserted into this jack.
The PHONES/OUTPUT jack also functions as an external output. You can connect the PHONES/OUTPUT jack to a keyboard amplifier, stereo system or other line-level audio device to send the instrument's output signal to that device.



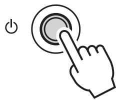
⚠ CAUTION
- **Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.**
- **Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.**

NOTICE
- **When the instrument's sound is output to an external device, first turn on the power to the instrument, then to the external device. Reverse this order when you turn the power off.**

Playing the Keyboard

The number designations ❶ – ㉑ match those described in “Panel Controls and Terminals” on page 8.

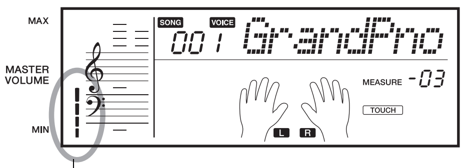
Turn the power on



Press the [⏻] (Standby/On) switch ❶ to turn on the power.

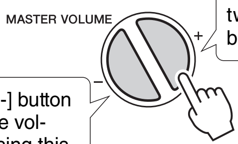
Adjust the volume

After the power is turned on, the default volume level is shown at the left end in the display.



The more bars shown, the higher the volume level.

While checking this bar indication, use the [MASTER VOLUME] buttons ❷ to adjust the entire volume of this instrument.



Press the [+] button to increase the volume. Pressing this twice will add one bar.

Press the [-] button to lower the volume. Pressing this twice will delete one bar.

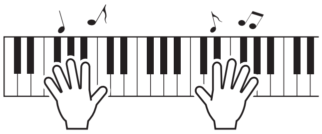
The default volume value is “12” (6 bars on the display).

NOTE

- *The Volume setting is reset to the default value whenever the power is turned off.*

Play the keyboard

After the power is turned on, playing the keyboard will produce the Piano sound.

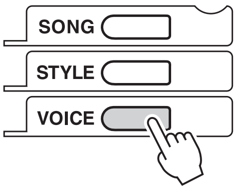


Select a Voice

→ Page 26

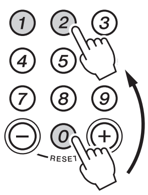
Although the grand piano Voice is automatically selected whenever the power is turned on, you can easily change this to guitar, drums, or any of an extensive range of Voices.

1 Press the [VOICE] ❿ button.



2 Use the number buttons ⓫ to select a Voice.

Example: Selecting Voice 012, Rock Organ.





Press number buttons [0], [1], [2].

Tips

Pressing the [PORTABLE GRAND] button ⓴ will reset the Voice setting to Grand Piano.



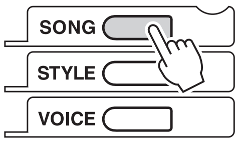
Listening to Songs

Listen to the Preset Songs

→ Page 18

Select the desired Song from the Preset Songs and listen to it.

1 **Press the [SONG] button ❽.**



2 **Use the number buttons to select a Song.**

3 **Press the [START/STOP] button ⓳ to start playback.**



To stop playback, press the [START/STOP] button again.

Tips

Pressing the [DEMO] button ⓬ will play all the Preset Songs in numerical order. To stop playback, press the [DEMO] button again.

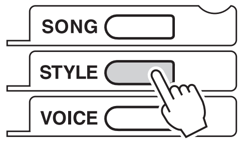


Play with a Style

→ Page 34

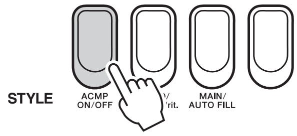
Try playing a Style to recreate the sound of a full band or orchestra.

1 **Press the [STYLE] button ❾.**

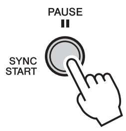


2 **Use the number buttons to select a Style.**

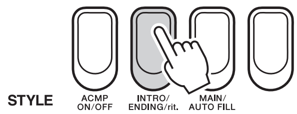
3 **Press the [ACMP ON/OFF] button ⓮ to turn accompaniment on.**



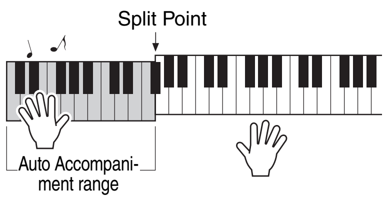
4 **Press the [SYNC START] button ⓲ to turn Sync Start on.**



5 **Press the [INTRO/ENDING/rit.] button ⓯.**



6 **Play a chord in the left area of the key-board to start playback.**



7 **Play a chord with your left hand and play a melody with your right hand.**

8 **Press the [INTRO/ENDING/rit.] button ⓯.**

After playback shifts to the Ending and reaches the end, Style playback will stop automatically.

Practicing and Learning

The number designations ❶ – ㉑ match those described in “Panel Controls and Terminals” on page 8.

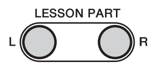
Use the Song Lesson feature

→ Page 24

Let’s practice the Preset Song by playing the lighting keyboard. You can independently practice the left-hand part or right-hand part, or practice both parts together.

1 **Press the [SONG] button ❽ then select a Song.**

2 **Press either or both the LESSON PART buttons ❸ to select a Part you wish to practice.**



3 **From the three Lessons described below, press the desired Lesson button (❹, ❺, ❻) to start Lesson playback.**



Listening
There’s no need to play the keyboard in this Lesson. Listen to the model melody/chords carefully and learn it well.



Timing
In this Lesson, try playing the lighting notes with the correct timing.



Waiting
In this Lesson, try playing the lighting notes correctly.

4 **You can stop the Lesson at any time by pressing the [START/STOP] button ⓳.**

Lighting Keyboard

→ Page 23 for details

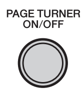
During Lesson playback, the notes you should play will light. This is available when the [LIGHT ON/OFF] ㉑ is turned on.



Page Turner for the iPad

→ Page 42 for details

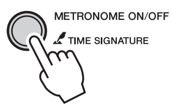
By turning on the Page Turner function, you can view the score of the current Song on your iPad screen. The notation page is automatically turned according to the playback progression.



Use the Metronome

→ Page 32

1 **Press the [METRONOME] button ⓭ to start the Metronome.**



2 **Press the [TEMPO/TAP] button ⓱ , then use the number buttons to adjust the tempo.**

3 **Press the [METRONOME] button again to stop the Metronome.**

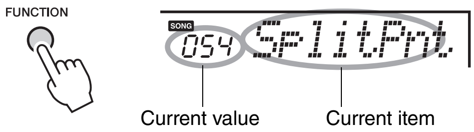
Setting Parameters

Make detailed settings

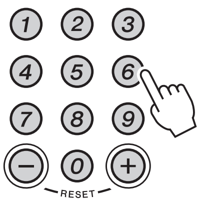
After learning how to use this instrument, use the [FUNCTION] button to set various parameters such as Tuning and Metronome Volume.

1 Find the desired item from the Function List, then press the [FUNCTION] button ❼ several times until the desired item appears.

By pressing the [-] button ⓫ while holding down the [FUNCTION] button, you can reverse the items.



2 Use the number buttons to select the value.



When the selected item can be set only to ON or OFF, pressing [+] selects "ON" while pressing [-] selects "OFF." Depending on the selected item, pressing [+] and [-] simultaneously resets the value to the default one.

NOTE
- *When Initial Send is selected, pressing [+] will transmit the panel settings to the connected computer as MIDI events.*

Function List

Item	Display	Range	Descriptions / Reference page
Style Volume	StyleVol	000 – 127	Page 39
Song Volume	SongVol	000 – 127	Page 22
Transpose	TransPos	-12 – 00 – 12	Page 30
Tuning	Tuning	427.0Hz – 440.0Hz – 453.0Hz	Page 30
Split Point	SplitPnt	000 – 127 (C-2 – G8)	Page 39
Touch Sensitivity	TouchSns	1 – 4	Page 31
Reverb On/Off	on Reverb	ON, OFF	Page 28
Reverb Type	Reverb	01 – 10	Page 28
Reverb Level	RevLevel	000 – 127	Page 29
Panel Sustain	Sustain	ON, OFF	Page 29
Keyboard Volume	M.Volume	000 – 127	Adjusts the volume of your keyboard performance.
Keyboard Octave	M.Octave	-2 – 0 – 2	Adjust the octave setting of the keyboard Voice.
Local Control	Local	ON, OFF	Page 41
External Clock	ExtClock	ON, OFF	Page 41
Initial Send	InitSend	–	Page 41
Metronome Time Signature 1	TimeSigN	00 – 60	Page 33
Metronome Time Signature 2	TimeSigD	02, 04, 08, 16	Page 33
Metronome Volume	MetroVol	000 – 127	Adjust the Metronome Volume.
Your Tempo	YourTemp	ON, OFF	Page 24
Demo Cancel	D-Cancel	ON, OFF	When set to ON, pressing [DEMO] produces no sound, and vice versa.
Auto Power Off	AutoOff	ON, OFF	Page 11

Basic Operation and Displays

Basic Operation

This instrument features three basic functions: Song, Style and Voice. This section shows you how to use these three functions and how to use the number buttons which are useful for various functions.

1 Select a basic function.



..... To select a Song, press the [SONG] button.



..... To select a Style, press the [STYLE] button.



..... To select a Voice, press the [VOICE] button.

The above operation calls up the name and number of the current Song, Style or Voice, and shows it in the display.

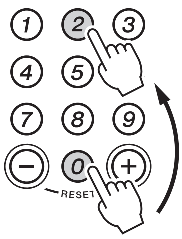
2 Select a Song, Style or Voice by using the number buttons [0]–[9], [+], [-].

For detailed lists of the Songs, Styles and Voices indicated on the front panel, see page 19 and pages 45–53.

● Number buttons [0]–[9]

The Number buttons can be used to directly enter a Song, Style or Voice number or parameter value.

Example: Selecting Voice 002, Bright Piano

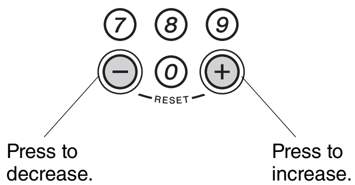


Press number buttons [0], [0], [2].

For numbers that start with one or two zeroes, the first zeroes can be omitted.

● [+], [-] buttons

Press the [+] button briefly to increase the value by 1, or press the [-] button briefly to decrease the value by 1. Press and hold either button to continuously increase or decrease the value in the corresponding direction.



3 Start playing.

- After selecting a Song or Style, press the [START/STOP] button to start/stop playback.
- After selecting a Voice, play the keyboard.

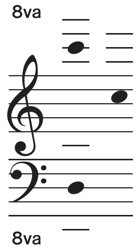


Display

The display shows various items described below as well as the current Song, Style or Voice. It also includes a range of indicators that show the on/off status for various functions.

Notation

Normally, the notes you play on the keyboard are shown. When Lesson playback is in progress, the melody and chord notes of the current Song are shown. When the Dictionary function is used, the notes of the chord you specify are shown.



NOTE
- *Any notes occurring below or above the staff are indicated by "8va" in the notation.*
- *For a few specific chords, not all notes may be shown, due to space limitations in the display.*

Measure

Indicates the current measure of the Song or Style.

MEASURE 003

Beat

Indicates the beat of the current Style or Song with flashing arrows.



Touch Response

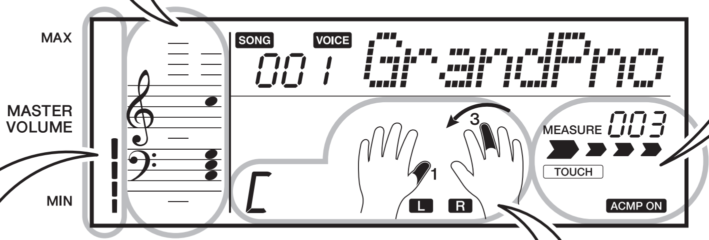
Appears when the Touch Sensitivity (page 31) is set to 1–3.

TOUCH

Accompaniment On/Off (ACMP ON/OFF)

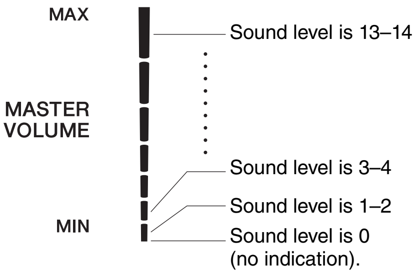
Appears when the entire keyboard is divided into the accompaniment area (left hand area) and melody area (right hand area).

ACMP ON



MASTER VOLUME indicator

The value of MASTER VOLUME is indicated by the number of bars. The more bars shown, the higher the volume level. The range is from 0–14. One bar represents 2 steps in the value.



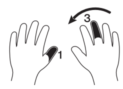
Chord

Indicates the chord currently being played back, or being played in the left hand area of the keyboard (when the ACMP is turned on).

C

Fingering Guide

Indicates which fingers to use to play the melody during Song playback. (page 23)



On/Off status of the right and left parts

During Song playback, you can mute the left or right parts of the Song by pressing the [L] and [R] buttons. The [L] and [R] icons indicate the current status.

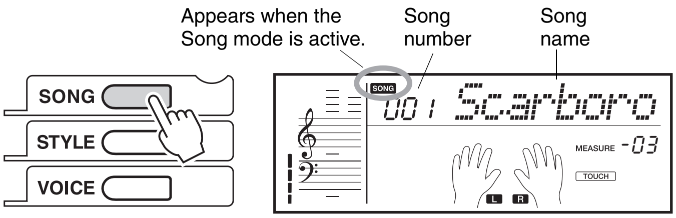
R	Right is on
R	Right is muted
L R	Left and right are on

Playing the Songs

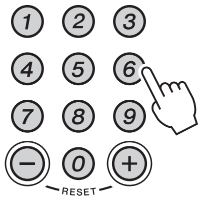
Selecting and listening to a specific Song

This instrument features a wide variety of preset Songs including traditional and classical.

1 **Press the [SONG] button.**
The Song number and name are shown on the display.



2 **Use the number buttons to select a Song.**
Refer to the Song List on the next page.



3 **Press the [START/STOP] button to start playback.**
Playback automatically stops when the Song reaches the end.
To stop playback at any time, press the [START/STOP] button again.



Changing the Melody Voice ( )

- *You can change the Melody Voice of the current Song during playback. To do this, select the desired Voice (page 26) then hold down the [VOICE] button for longer than a second.*

● **Repeat Playback of all Songs**
Pressing the [DEMO] button will play all the preset Songs in sequence. This playback will continue repeatedly starting again from the first Song. To stop playback at any time, press the [DEMO] or [START/STOP] button.

● **Repeat Playback of a specific Song ( )**
Pressing the [DEMO] button for longer than a second repeatedly plays Song 000. During playback, you can change the Song via the Number buttons. The selected Song will play repeatedly until pressing the [DEMO] or [START/STOP] button.

Song List

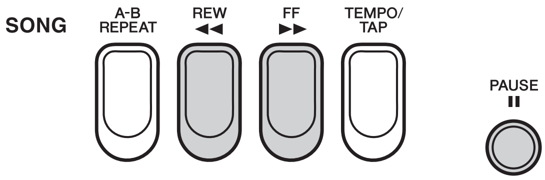
Song No.	Song Name
Demo	
000	Demo (Original)
Standard	
001	Scarborough Fair (Traditional)
002	Three Blind Mice (Traditional)
003	O du lieber Augustin (Traditional)
004	London Bridge (Traditional)
005	Believe Me If All Those Endearing Young Charms (Traditional)
006	Ave Maria (F.Schubert)
007	Grandfather's Clock (H.C. Work)
008	Twinkle Twinkle Little Star (Traditional)
009	I've Been Working On The Railroad (Traditional)
010	Little Brown Jug (Traditional)
011	When The Saints Go Marchin' In (Traditional)
012	Aloha Oe (Q.Liliuokalani)
013	Home Sweet Home (H. Bishop)
014	Loch Lomond (Traditional)
015	Bill Bailey (Won't You Please Come Home) (H. Cannon)
016	Down By The Riverside (Traditional)
017	Aura Lee (G. Poulton)
018	Greensleeves (Traditional)
019	My Bonnie (H.J Fulmer)
020	Funiculi-Funicula (L. Denza)
021	Die Lorelei (F. Silcher)
022	Wenn ich ein Vöglein wär (Traditional)
023	Turkey In The Straw (Traditional)
024	Old Folks At Home (S.C. Foster)
025	Londonderry Air (Traditional)
026	When Irish Eyes Are Smiling (E.R. Ball)
027	Muss I Denn (F. Silcher)
028	America The Beautiful (S.A. Ward)
029	O Christmas Tree (Traditional)
030	Jingle Bells (J.S. Pierpont)
031	Silent Night (F. Gruber)
032	Deck The Halls (Traditional)
033	Amazing Grace (Traditional)
Duet	
034	We Wishi You A Merry Christmas (Traditional)
035	Im Mai (Traditional)
036	Mary Had a Little Lamb (Traditional)
037	Yankee Doodle (Traditional)
038	Ten Little Indians (Septimus Winner)
039	Battle Hymn of the Republic (Traditional)
040	My Darling Clementine (Percy Montrose)
041	The Cuckoo (Traditional)
042	Close Your Hands, Open Your Hands (J.J. Rousseau)
043	On Top of Old Smoky (Traditional)
Pianist	
044	Für Elise (L.v. Beethoven)
045	Etude op.10-3 "Chanson De L'adieu" (F. Chopin)
046	Turkish March (W.A. Mozart)
047	Valse op.64-1 "Petit Chien" (F. Chopin)
048	Menuett/Beethoven (L.v. Beethoven)
049	24 Preludes op.28-7 (F. Chopin)

Song No.	Song Name
050	Melodie (Album für die Jugend) (R. Schumann)
051	Fröhlicher Landmann (Album für die Jugend) (R. Schumann)
052	Träumerei (Kinderszenen) (R. Schumann)
053	Thema (Impromptus D.935-3) (F. Schubert)
054	Invention Nr.1 (J. S. Bach)
055	Gavotte/J. S. Bach (J. S. Bach)
056	Arietta/Grieg (E. Grieg)
057	La Chevaleresque (J. F. Burgmüller)
058	Prelude (Wohltemperierte Klavier 1-1) (J.S. Bach)
059	Annie Laurie (Traditional)
060	Moments Musicaux op.94-3 (F. Schubert)
061	La Viollette (Streabbog)
062	Menuett (L. Boccherini)
063	The Entertainer (S. Joplin)
Piano Ensemble	
064	Nocturne op.9-2 (F. Chopin)
065	Ave Maria/J. S. Bach – Gounod (J. S. Bach/C. F. Gounod)
066	Piano Concerto No.21 2nd mov. (W. A. Mozart)
067	Romanze (Serenade K.525) (W. A. Mozart)
068	Die Schlittenfahrt K.605-3 (W. A. Mozart)
069	Ave Verum Corpus (W. A. Mozart)
070	Piano Sonate op.27-2 "Mondschein" (L.v. Beethoven)
071	Ode to Joy (L.v. Beethoven)
072	Canon (J. Pachelbel)
073	Air de Toreador "Carmen" (G. Bizet)
074	The SurpriseSymphony (F.J. Haydn)
075	Gavotte (F.J. Gossec)
076	Menuett (J.S. Bach)
077	String Quartet No.17 2nd mov. "Serenade" (F.J. Haydn)
078	Song Of The Pearl Fisher (G. Bizet)
079	Jesu, Joy Of Man's Desiring (J.S. Bach)
080	Der Vogelfänger bin ich ja (W. A. Mozart)
081	The Danube Waves (I. Ivanovici)
082	O Mio Babbino Caro (From "Gianni Schicchi") (G. Puccini)
083	Liebesträume Nr.3 (F. Liszt)
084	To A Wild Rose (E.A. MacDowell)
Classical	
085	Waltz (The Sleeping Beauty) (P. I. Tchaikovsky)
086	Air (Orchestral Suite) (J. S. Bach)
087	Siciliano/J. S. Bach (J. S. Bach)
088	Menuet (L'Arlésienne) (G. Bizet)
089	Largo (From the New World) (A. Dvořák)
090	Pizzicato Polka (J. Strauss II)
091	Frühlingslied (F. Mendelssohn)
092	La Primavera (From Le Quattro Stagioni) (A. Vivaldi)
093	Orphée Aux Enfers Ouverture (J. Offenbach)
094	Danse Des Mirlitons From "The Nutcracker" (P. I. Tchaikovsky)
095	Slavonic Dances No.10 (A. Dvořák)
096	Guillaume Tell (G. Rossini)
097	Méditation De Thais (J. Massenet)
098	Ungarische Tänze Nr.5 (J. Brahms)
099	Valse Des Fleurs (From "The Nutcracker") (P. I. Tchaikovsky)
100	Frühlingsstimmen (J. Strauss II)

- *Refer to the included Song Booklet for details.*
- *Some of the Preset Songs have been edited for length or arrangement, and may not be exactly the same as the original.*
- *Depending on the Song arrangement, a left-hand part may not be available.*

Song Playback Settings

Song Fast Forward, Fast Reverse, and Pause



[REW] button : While playback is in progress, press this to fast-reverse the Song with no sound. While playback is stopped, press this to decrease the measure number.

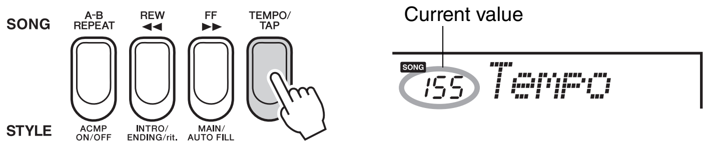
[FF] button : While playback is in progress, press this to fast-forward the Song. While playback is stopped, press this to increase the measure number.

[PAUSE] button : Temporarily stops playback. Press this button again to resume playback from the point at which it was stopped.

Adjusting the Tempo

The tempo of the Song and Style can be set over a range of 11 to 280.

1 Press the [TEMPO/TAP] button to call up the current tempo value.



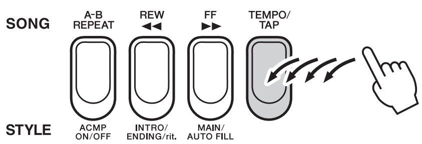
2 Use the Number buttons to set the tempo over a range of 11 to 280.

NOTE

- *Press the [+] and [-] buttons simultaneously to instantly reset the value to the default tempo of the current Style or Song.*

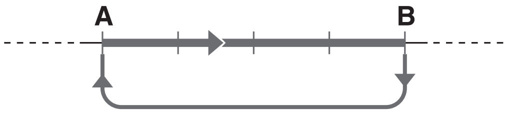
Tap Start

You can supply a count-in at any tempo you like to start playback. Simply tap the [TEMPO/TAP] button at any tempo—four times for time signatures in 4, and three times for time signatures in 3—and the selected Song or Style (Rhythm part only) will start at the tapped tempo.



Repeat Playback

This function lets repeatedly practice sections in a Song that you find difficult to play. It lets you play back only a specific section of the Song repeatedly by setting the A point (Start point) and B point (End point), in one-measure increments.



Repeat playback of this section

To start Repeat Playback:
When playback reaches the point you want to specify as the Start point, press the [A-B REPEAT] button to set Point A. When playback reaches the point you want to specify as the End Point, press the [A-B REPEAT] button again to set Point B. The specified A-B section of the song will now play repeatedly.



NOTE
- *You can also set the A-B Repeat function when the Song is stopped. Simply use the [REW] and [FF] buttons to select the desired measures, pressing the [A-B REPEAT] button for each point, then start playback.*

To cancel Repeat Playback:
Press the [A-B REPEAT] button. “oFF REPEAT” will appear on the display and normal playback of the Song will continue.

NOTE
- *Selecting another Song or Style mode will cancel the A-B Repeat points.*

● **To specify the beginning of the Song as Point A:**
Before starting playback, press the [A-B REPEAT] button to set Point A at the beginning of the Song.

● **To specify the end of the Song as Point B:**
After Point A is specified during playback, let the Song play back normally until the end.

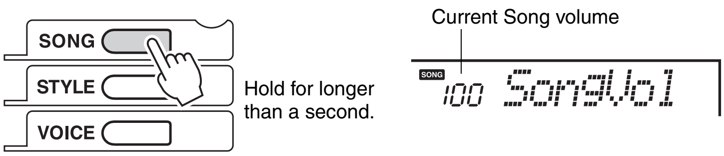
Song Volume

Adjusting the Song Volume

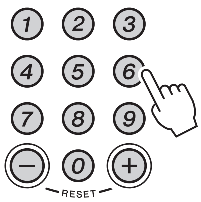
This procedure lets you adjust the volume balance between Song playback and your keyboard performance.

1 Hold down the [SONG] button for longer than a second.

The current Song volume is shown in the display.



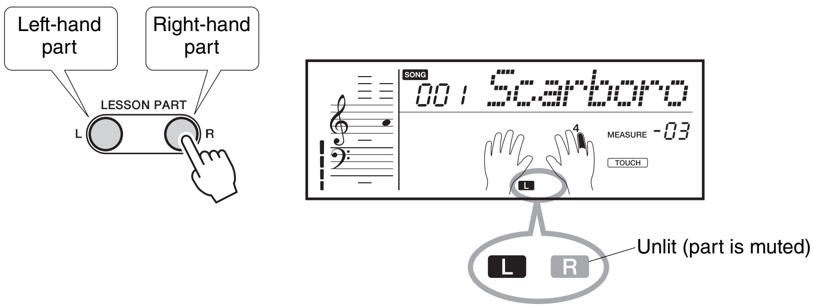
2 Use the number buttons to set the Song Volume.



NOTE
- *Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (100).*

Muting a Part

The Song consists of several Parts, from which you can mute the L part or R part on the panel.



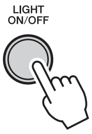
During Song playback, pressing the [R] button will mute the right-hand part while pressing the [L] button will mute the left-hand part.
To cancel the mute status, press the corresponding Part buttons, [R] or [L] again during Song playback, or select a different Song.

Guide Function

Two convenient functions—Lighting Keyboard and Fingering Guide—are provided for ease in using the Song Lesson feature. Before starting the Song Lesson (page 24), read this page.

Lighting Keyboard

This instrument features 61 individual lighting keys, which light when played. When using the Song Lesson function, keys that you should press next will light in succession. Although this Light function is turned on by default, you can turn this function on or off by pressing the [LIGHT ON/OFF] button.





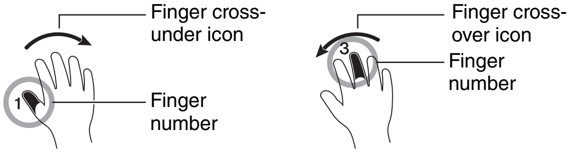
⚠ CAUTION

- **Playing while looking at the lights for a long period of time may cause eye-strain or stiffness in your neck and shoulders. For your health and comfort, we recommend that you take a ten-minute break after every hour of playing.**

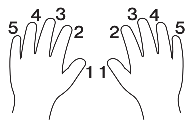
Fingering Guide

When the Song is started, the fingering guide appears on the display and shows you which fingers you should use while playing.

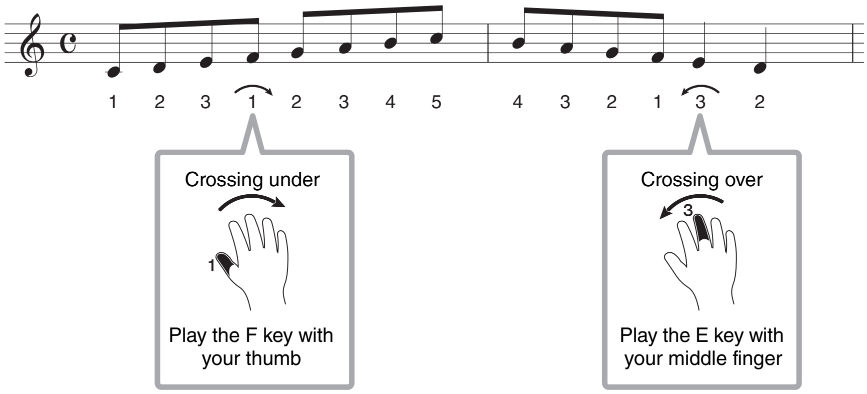
Fingering display



Finger number



● **Examples of crossing under and over**



* This function does not apply to the Song 000.

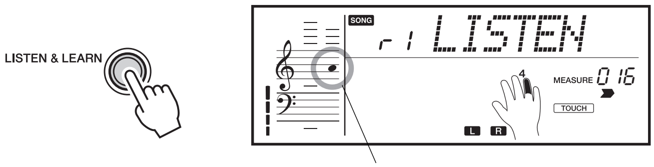
Using the Lesson feature

This function lets you use the desired Song for a left-hand, right-hand, or both-hands lesson via three easy steps.
You can refer to the music scores in the Song Book.

Three types of Lessons

■ Lesson 1—Listen

In this Lesson, you need not play the keyboard. The model melody/chords of the part you selected will sound. Listen to it carefully and remember it well.

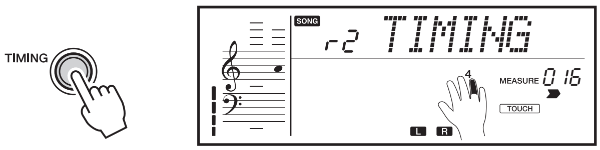


The notation of the model melody is shown.

NOTE
- *When the melody Voice of the Song is changed, the key position shown in the display may be shifted (in octave units), depending on the selected Voice.*

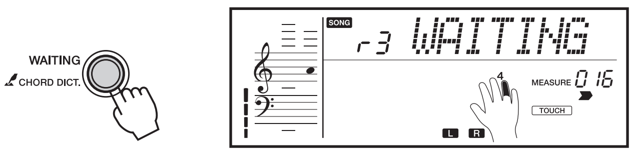
■ Lesson 2—Timing

In this mode, simply concentrate on playing the notes with the correct timing. Even if you play wrong notes, the correct notes shown in the display will sound.



■ Lesson 3—Waiting

In this Lesson, try playing the correct notes shown on the display. The Song pauses until you play the right note, and playback tempo changes to match the speed at which you are playing.

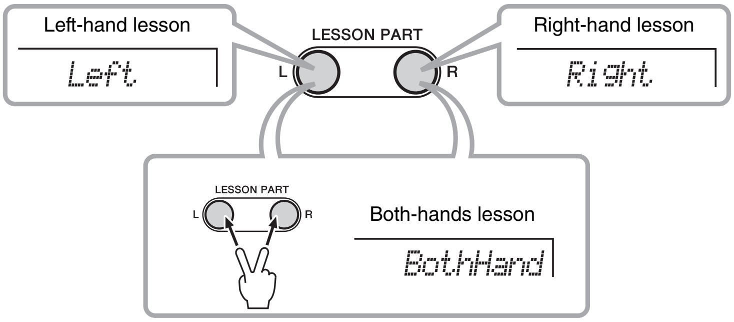


Your Tempo
- *By default, playback tempo will change to match the speed at which you are playing. This is because the "Your Tempo" parameter (page 15) is set to ON. If you want to disable this function, or you want to learn using the original tempo, set Your Tempo to OFF.*

Trying the Song Lesson

1 Select the desired Song for your lesson (page 18).
Song 000 cannot be used with the Song Lesson feature.

2 Turn off the part you want to practice.
For the right-hand lesson, press the [RIGHT] button to turn off the right-hand part. For the left-hand lesson, press the [LEFT] button to turn off the left-hand part. For the lesson of both hands, press both buttons simultaneously.



NOTE
- *A "No LPart" message is shown in the display if you select the left part in Songs which does not have left part data. These Songs cannot be used for left-hand or both-hands lessons.*
- *If a Song is being played back via the [START/STOP] button, stop playback then select the part.*

3 Select the Lesson type.
Referring to page 24, press the [LISTEN & LEARN], [WAITING] or [TIMING] button to start Lesson playback.

4 Start the Lesson.
Practice the selected Song according to the selected Lesson type.

5 Stop the Lesson.
You can stop the Lesson at any time by pressing the [START/STOP] button.

NOTE
- *You can change the Lesson type during Lesson playback by pressing the corresponding button.*
- *You can change the Lesson part during Lesson playback.*
- *The Split Point is fixed and it cannot be changed. For the left-hand lesson, it is fixed at 59 or B2; for the left-hand chord lesson, it is fixed at 54 or F♯2.*

Grade

When playback of Timing and Waiting reaches to the end, you can confirm your Grade on the display.

OK
Good
Very Good
Excellent

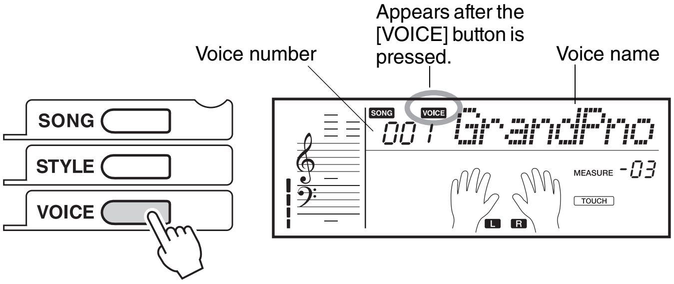
Changing the Voice for the Keyboard

Selecting a Voice

In addition to piano, organ, and other conventional keyboard instruments, this instrument has a large range of voices that includes guitar, bass, strings, sax, trumpet, drums and percussion, and even sound effects—giving you a wide variety of musical sounds.

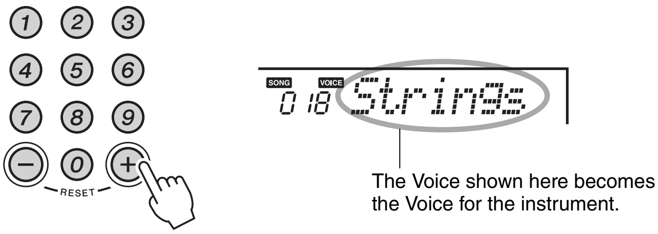
1 Press the [VOICE] button.

The Voice number and name are shown.



2 Select the desired Voice.

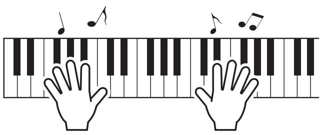
Use the Number buttons [0]–[9], [+] and [-]. Refer to the Voice List on page 45.



One Touch Setting

- *Selecting Voice number 000 (One Touch Setting) automatically calls up the most suitable voice for the currently selected Style or Song.*

3 Play the keyboard.



Try selecting and playing different Voices

Keyboard Volume and Octave settings

- *Can be set using the [FUNCTION] button.(page 15).*

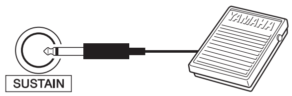
Playing the "Grand Piano"

When you want to reset various settings to default and simply play a Piano sound, press the [PORTABLE GRAND] button.
The Voice for the entire keyboard will be set to "001 Grand Piano 1."



Using a Footswitch

You can produce a natural sustain as you play by pressing an optional Footswitch plugged into the [SUSTAIN] jack.

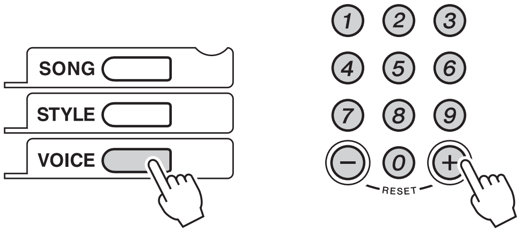


NOTE

- *Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.*
- *Do not press the footswitch while turning the power on. Doing this changes the recognized polarity of the footswitch, resulting in reversed footswitch operation.*

Playing a Drum Kit

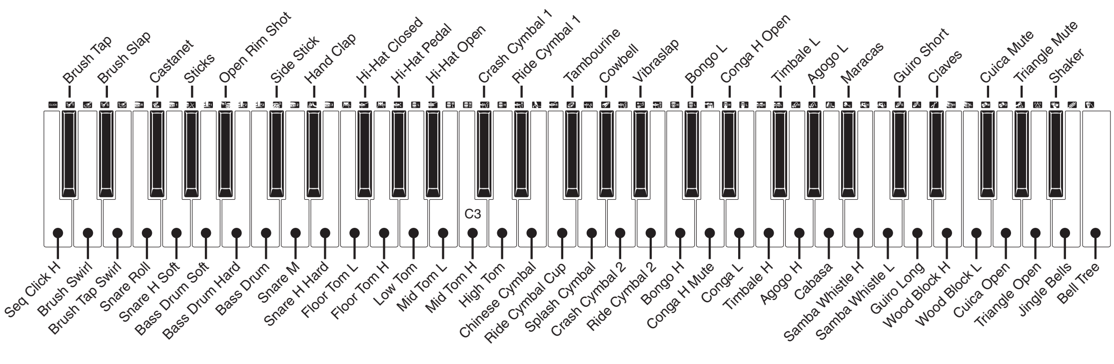
Drum kits are collections of drum and percussion instruments. When drum kits (Voice numbers 141–153) are selected, you can play different percussion sounds directly from the keyboard. For details, refer to the Drum Kit List on page 49.



Example: 141 Standard Kit 1



To reset the Voice to the Grand Piano, press the [PORTABLE GRAND] button.



* When Voice number 141 is selected, the icons printed above the keyboard indicates the instruments assigned to each key.

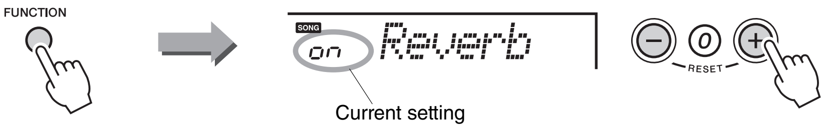
Playing With a Variety of Effects

Adding Reverb

Reverb adds the ambience of a room or concert hall to the sound that you play on the keyboard.

Reverb On/Off

Press the [FUNCTION] button several times until “on Reverb” or “oFF Reverb” appears. The default setting is on. Set this to on or off by using the [+] and [-] buttons.



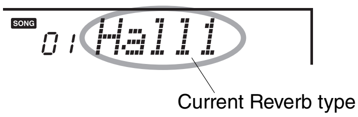
Selecting a Reverb type

The ideal type is automatically selected whenever you select a Song or Style, but you can select any of the available Reverb Types.

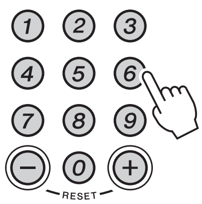
1 **Press the [FUNCTION] button several times until “Reverb” appears.**
“Reverb” is located next to the “on Reverb” or “oFF Reverb” indications.



The current Reverb type appears after the “Reverb” indication.

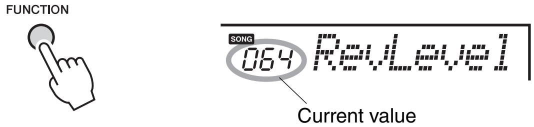


2 **Select the desired Reverb Type by using the number buttons [0]–[9], [+], [-].**
Refer to the Reverb Type list on page 52 for details.



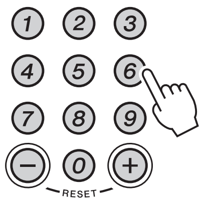
Adjusting the Reverb depth

1 Press the [FUNCTION] button several times until “RevLevel” appears.



2 Set the desired Reverb depth by using the number buttons [0]–[9], [+], [-].

The range is from 0–127.



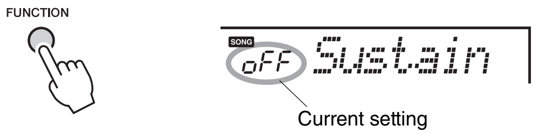
NOTE

- *Press the [+] and [-] buttons simultaneously to instantly reset the value to the default of “64.”*

Adding Panel Sustain

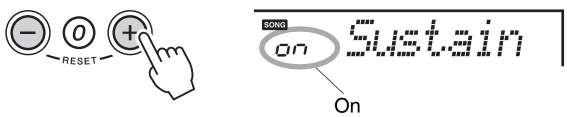
This function adds a fixed sustain to the keyboard Voices.

1 Press the [FUNCTION] button several times until “Sustain” appears.



2 Press the [+] button to turn Panel Sustain on.

Panel Sustain will be added to the notes you play on the keyboard. To turn it off, press the [-] button.



NOTE

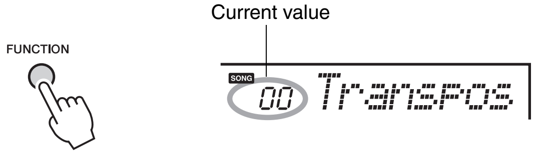
- *You can apply Sustain to the keyboard sound by pressing an optional Footswitch. For details, refer to page 27.*
- *For certain Voices, the sustain effect may not be obvious or audible, even when Panel Sustain is turned on.*

Controlling the Pitch

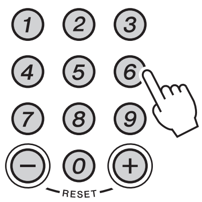
Transposing the Pitch in Semitones

The overall pitch of the instrument can be shifted up or down in semitone increments.

1 Press the [FUNCTION] button several times until "Transpos" appears on the display.



2 Use the number buttons to set the Transpose value over a range of -12 (down one octave) to 12 (up one octave).



NOTE

- *Transpose cannot be applied to Drum Kits 141 and 142 (Voice numbers). However, Transpose can be applied to Drum Kits 143–153; keep in mind, though, that the instrument sounds are not tuned, but simply shifted to different keys.*
- *To call up the default value (0), press the [+] and [-] buttons simultaneously.*

Fine Tuning the Pitch

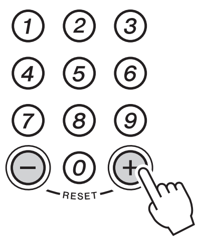
The overall pitch of the instrument can be tuned up or down in roughly 0.2Hz steps.

1 Press the [FUNCTION] button several times until "Tuning" appears on the display.

After a while, the current value is shown on the display.



2 Use the [+] and [-] buttons to set the Tuning value over a range of 427.0Hz to 453.0Hz.



NOTE

- *Tuning cannot be applied to the Drum Kits (Voice numbers 141–153).*
- *To call up the default value (440.0Hz), press the [+] and [-] buttons simultaneously.*

Changing the Touch Sensitivity

You can change the Touch Sensitivity of the keyboard to match your playing preferences—from a maximum dynamic range (which gives you complete expressive control of the volume, from soft to loud), to a fixed setting in which all notes sound at the same volume regardless of your playing strength.

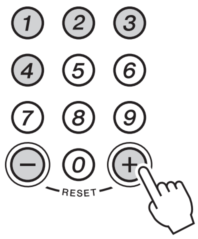
NOTE
- *The default Touch Sensitivity value is "2".*

1 **Press the [FUNCTION] button several times until "TouchSns" appears on the display.**

After a while, the current value is shown on the display.



2 **Use the [1]–[4], [+] and [-] buttons to select the Touch Sensitivity.**



Touch Sensitivity	Description
1	The volume level changes very widely from pianissimo to fortissimo to facilitate dynamic and dramatic expression. You have to hit the keys hard to produce a loud sound.
2	This is the standard piano touch response.
3	The volume level does not change much when you play the keyboard soft or hard.
4 (Off)	The volume level does not change at all regardless of whether you play the keyboard soft or hard.

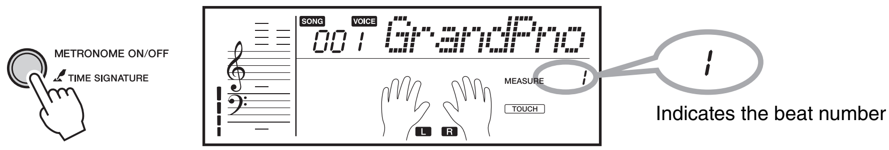
Using the Metronome

The metronome feature is convenient for practicing with an accurate tempo. This instrument allows you to set both the tempo and the time signature. Set the time signature according to the notation, and set the tempo suitable for your skill level.

Starting/Stopping the metronome

Press the [METRONOME ON/OFF] button to start the metronome.

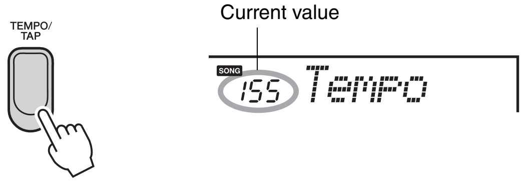
Only the first beat is accented with a bell sound. To stop the metronome, press this button again.



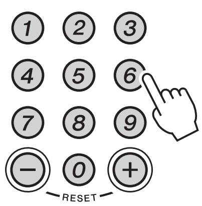
> **● Metronome volume**
> This can be set by using the [FUNCTION] button (page 15).

Adjusting the Tempo

1 **Press the [TEMPO/TAP] button to call up the current Tempo value.**



2 **Use the number buttons to set the tempo over a range of 11 to 280.**



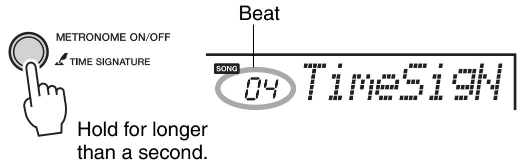
NOTE
- *The metronome tempo will be automatically changed to the value set in the Song or Style when you select a different Song or Style.*

Setting the Time Signature

When this is set to a value other than 0, the first beat is accented with a bell sound. When set to 0, no beat is accented. This instrument allows you to set the denominator of the time signature, as well as the beat (numerator of the time signature).

1 **Hold down the [METRONOME ON/OFF] button for longer than a second.**

The Beat (corresponding to the numerator of the Time Signature) is shown on the display.



2 **Use the number buttons to set the Beat over a range of 0 to 60.**

3 **Press the [FUNCTION] button.**

The denominator of the Time Signature is shown on the display.



NOTE

- *The Time Signature settings for a Song or Style will automatically be changed when you select a different Song or Style.*

4 **Use the [+] and [-] buttons to select a note.**

The available values are as follows:

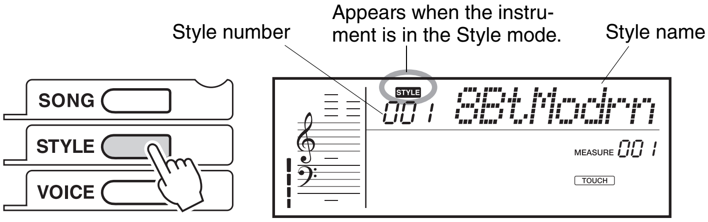
Value	Descriptions
02	Half note
04	Quarter note
08	8th note
16	16th note

Playing with a Style

The Style puts a full backing band at your fingertips. To use it, all you have to do is play the chords with your left hand as you perform and the selected Style matching your music will automatically play along, instantly following the chords you play.

1 **Press the [STYLE] button.**

The Style number and name are shown on the display.



2 **Use the number buttons to select a Style.**

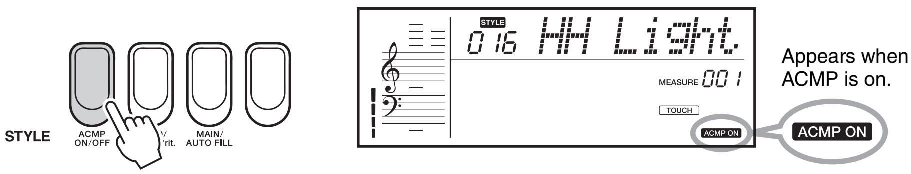
Refer to the Style List on page 53.



> ● **Playing only the Rhythm Part**
>
> After you've selected a Style, pressing the [START/STOP] button starts playback of the Rhythm part of the Style. To stop playback, press the [START/STOP] button again.
>
> If you select one of the Pianist category Styles (093–100), which have no rhythm parts, no sound is produces even when you press the [START/STOP] button. If this happens, turn ACMP on then play the chord in the Auto Accompaniment range of the keyboard to turn on playback of other accompaniment parts.

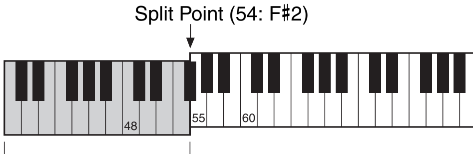
3 **Press the [ACMP ON/OFF] button to turn on ACMP.**

To turn ACMP off, press this button again.



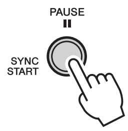
● **When ACMP is on:**

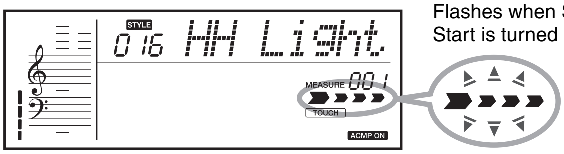
The keys to the left of the Split Point (54; F♯2) will play only chords. This is known as the “Auto Accompaniment range.”



NOTE
- *You can change the Split Point. Refer to page 39.*

4 Press the [SYNC START] button to turn on Sync Start.



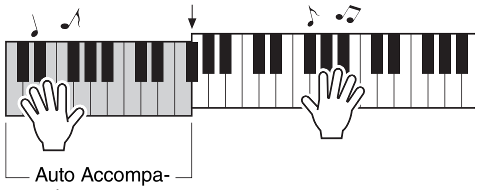


When Sync Start is on, you can start Style playback by pressing a chord in the Auto Accompaniment range of the keyboard. To turn Sync Start off, press this button again.

5 Play a chord in the Auto Accompaniment range of the keyboard to start Style playback.

Adjusting Tempo
- *You can adjust the tempo of the Style (page 20).*

NOTE
- *If you press the [SYNC START] button during Style playback, playback stops immediately and Sync Start turns on (beat arrows flash).*



Even if you’re not sure how to play chords, you can still easily create full chords by simply playing one key. Try playing one, two or three keys (any adjacent notes will do) in the Auto Accompaniment range of the keyboard. Different keys will produce different results.
For instructions playing chords, refer to page 37 or use the special Chord Dictionary function (page 38) which shows you how to play specific chords on the display and with the key lamps.

Play a variety of left-hand chords while playing a melody with your right hand.

6 To stop playback, press the [START/STOP] button.

You can stop playback also by pressing the [INTRO/ENDING/rit.] button (page 36) so that the Ending of the current Style will play and then Style playback will stop.



Using the Style Sections

The instrument features a wide variety of Style "Sections" that allow you to vary the arrangement of the accompaniment to match the music you are playing.

● INTRO

This is used for the beginning of your performance. When the Intro finishes, Style playback shifts to the Main section. The length of the Intro (in measures) differs depending on the selected Style.

● ENDING

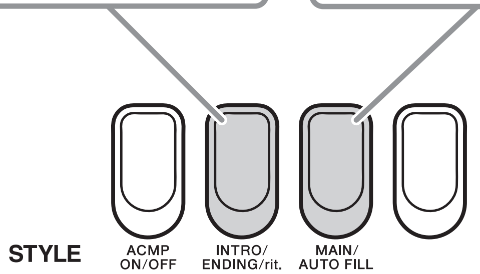
This is used for the ending of your performance. When the Ending finishes, Style playback stops automatically. The length of the Ending (in measures) differs depending on the selected Style.

● MAIN

This is used for playing the main part of your performance. Playback of the Main section repeats indefinitely until another Section's button is pressed. There are two variations (A and B), and the Style playback sound changes harmonically based on the chords you play with your left hand.

● AUTO FILL

This is automatically added before changing to Main A or B.



● Recommended method for using Sections

■ Setup

1. **Press the [STYLE] button and then select a Style.**
2. **Press the [ACMP ON/OFF] button to turn ACMP on.**
3. **Press the [INTRO/ENDING/rit.] button.**
4. **Press the [MAIN/AUTO FILL] button to select Main A or Main B.**
5. **Press the [SYNC START] button to turn SYNC START on.**

You're now ready to play the Intro.

■ Start playing

6. **As soon as you play a chord with your left hand, the Intro of the selected Style starts.**
7. **Press the [MAIN/AUTO FILL] button. (For switching Main Sections/Adding a Fill-in)**

■ Ending

8. **Press the [INTRO/ENDING/rit.] button. (For adding an Ending)**

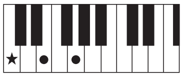
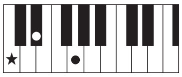
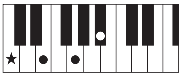
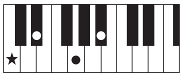
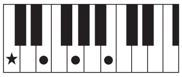
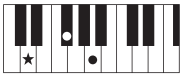
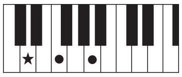
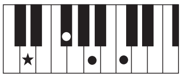
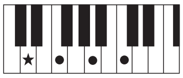
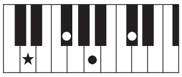
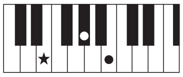
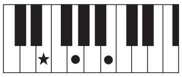
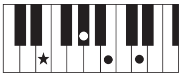
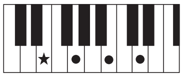
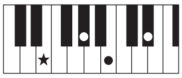
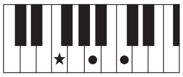
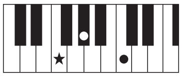
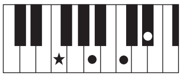
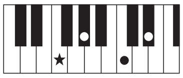
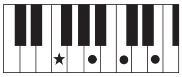
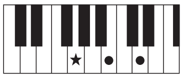
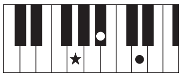
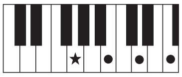
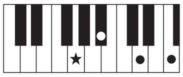
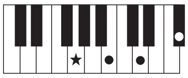
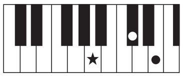
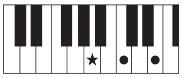
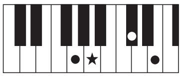
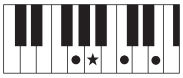
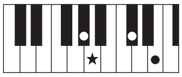
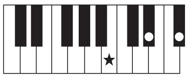
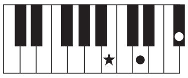
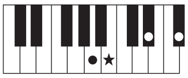
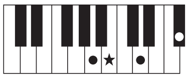
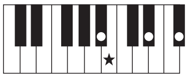
An appropriate Ending Section will play and then Style playback will stop. You can have the Ending gradually slow down (ritardando) by pressing the [INTRO/ENDING/rit.] button again during Ending playback.

Playing Chords for Style Playback

Basic Chords

If you are unfamiliar with chords, refer to the chart below which shows common chords for quick reference. Because there are many useful chords and many different ways to use them musically, use the Chord Dictionary function (page 38), or refer to commercially available chord books for further details.

★ Indicates the root note.

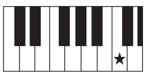
Major	Minor	Seventh	Minor Seventh	Major Seventh
C 	Cm 	C7 	Cm7 	CM7 
D 	Dm 	D7 	Dm7 	DM7 
E 	Em 	E7 	Em7 	EM7 
F 	Fm 	F7 	Fm7 	FM7 
G 	Gm 	G7 	Gm7 	GM7 
A 	Am 	A7 	Am7 	AM7 
B 	Bm 	B7 	Bm7 	BM7 

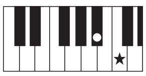
- *Inversions can be used as well as in "root" position—with the following exceptions:*
  m7, m7♭5, 6, m6, sus4, aug, dim7, 7♭5, 6(9), sus2
- *Inversion of the 7sus4 and m7(11) chords are not recognized if the notes are omitted.*
- *sus2 chords are indicated by the root name only.*
- *When you play notes which cannot be recognized as a chord, no chord name is shown on the display. In this case, only the Rhythm and Bass parts will be played back.*

● Easy Chords

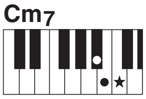
This method lets you easily play chords in the Auto Accompaniment range of the keyboard using only one, two, or three fingers.

For root "C"

C


Cm


C7


Cm7


To play a major chord
Press the root note (★) of the chord.

To play a minor chord
Press the root note together with the nearest black key to the left of it.

To play a seventh chord
Press the root note together with the nearest white key to the left of it.

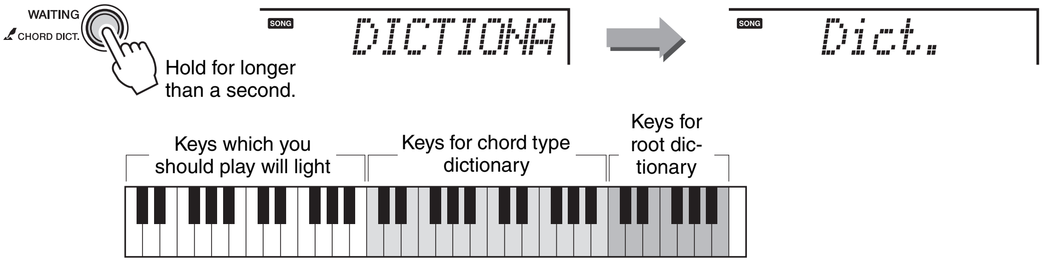
To play a minor seventh chord
Press the root note together with the nearest white and black keys to the left of it (three keys altogether).

Looking up Chords Using the Chord Dictionary

The built-in “Chord Dictionary” shows you the individual notes of chords. This is ideal when you know the name of a certain chord but do not know how to play it.

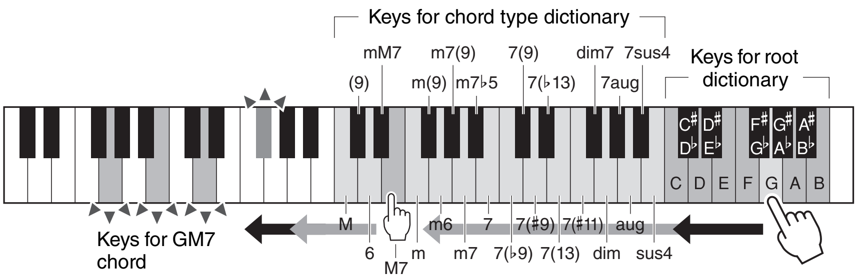
1 Hold down the [WAITING] button for longer than a second.

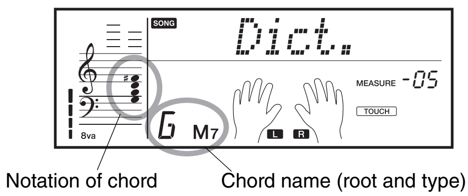
“DICTIONARY” followed by “Dict.” will appear in the display, then the keyboard will be divided into three ranges as illustrated below.



2 As an example, try learning how to play a GM7 (G major seventh) chord.

Press “G” in the Keys for Root Dictionary section, then “M7” in the Keys for Chord Type Dictionary section to turn on the key lamps which you should play. On the display, the notes you should play for the specified Chord Type and Root are shown as notation.





Major Chords

- *Major chords are usually indicated by the root name only. For example, the indication “C” in a score refers to a “C Major” chord. To look up the fingering for a major chord press the root key and then the M chord type key.*

3 Try playing a chord in the Auto Accompaniment range of the keyboard, checking the indications in the display.

When you’ve played the chord properly, a bell sound signals your success and the chord name in the display flashes.

To call up possible inversions of the chord, press the [+]/[-] buttons.

4 To exit from the Chord Dictionary display, press the [SONG] or [STYLE] button.

Style Playback Settings

Adjusting the Style Volume

This procedure lets you adjust the volume balance between Style playback and your keyboard performance.

1 **Hold down the [STYLE] button for longer than a second.**

The current Style Volume is shown on the display.



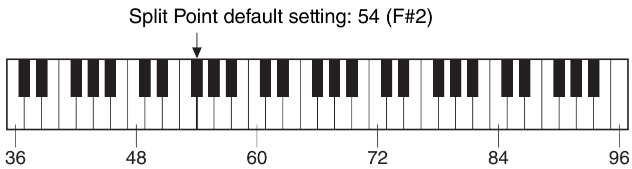
2 **Use the number buttons to set the Style Volume.**

NOTE

- *Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (100).*

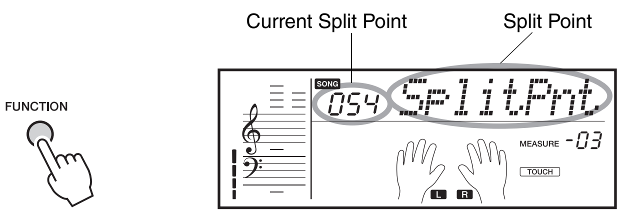
Setting the Split Point

You can change the Split Point which divides the entire keyboard into the Auto Accompaniment range (left-hand area) and Melody range (right-hand area).



The default Split Point is key number 54 (the F#2 key), but you can change it to another key.

1 **Press the [FUNCTION] button several times until “SplitPnt” appears.**



The current Split Point key is lighted.

2 **Use the Number buttons to set the Split Point.**

NOTE

- *Press the [+] and [-] buttons simultaneously to instantly reset the value to its default setting (54 or F#2).*

Connecting to a Computer

This instrument is compatible with MIDI (Musical Instrument Digital Interface), For example, you can play Song data (MIDI files you've purchased/downloaded from the Internet) from computer software, using the sound of the Voices of this instrument.

Computer OS: Windows XP (SP3 or later) (32bit), Windows Vista (32bit), Windows 7 (32bit/64bit),
Mac OS X Version 10.5.0–10.7.X

NOTICE

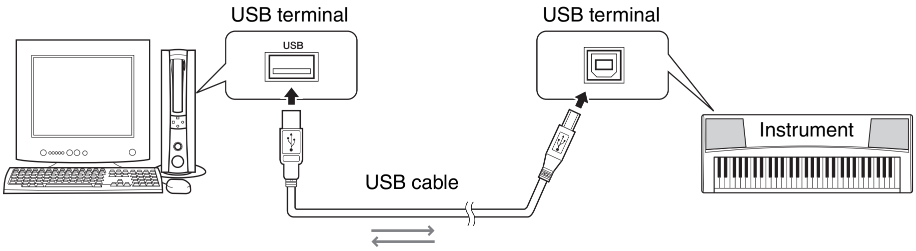
- **Connecting a computer which does not satisfy the above OS may cause computer malfunction. Yamaha USB-MIDI Driver is supported only by the above OS.**

1 On the instrument, turn off the power.

2 Turn on the power of the computer.

Quit any open application software on the computer.

3 Connect a USB cable to the [USB TO HOST] terminal of the instrument, then to the USB terminal of the computer.



4 Turn on the power of the instrument.

The computer will automatically be set to enable MIDI communication with this instrument.

■ Yamaha Standard USB-MIDI driver

When data communication is unstable or some problem occurs with the above operation, download the Yamaha Standard USB-MIDI driver from the following URL:

http://download.yamaha.com/

By following the Installation Guide in the package file, install the driver to the computer. For OS compatibility information, refer to the above URL.

■ Precautions when using the USB TO HOST terminal

When connecting the computer to the [USB TO HOST] terminal, make sure to observe the following points. Failing to do so risks freezing the computer and corrupting or losing the data. If the computer or the instrument freezes, restart the application software or the computer OS, or turn the power to the instrument off then on again.

NOTICE

- **Use an AB type USB cable of less than 3 meters. USB 3.0 cables cannot be used.**
- **Before connecting the computer to the [USB TO HOST] terminal, exit from any power-saving mode of the computer (such as suspend, sleep, standby).**
- **Before turning on the power to the instrument, connect the computer to the [USB TO HOST] terminal.**
- **Execute the following before turning the power to the instrument on/off or plugging/unplugging the USB cable to/from the [USB TO HOST] terminal.**
  - **Quit any open application software on the computer.**
  - **Make sure that data is not being transmitted from the instrument. (Data is transmitted only by playing notes on the keyboard or playing back a song.)**
- **While the computer is connected to the instrument, you should wait for six seconds or more between these operations: (1) when turning the power of the instrument off then on again, or (2) when alternately connecting/disconnecting the USB cable.**

MIDI settings

On this instrument, the following MIDI parameters can be set by using the [FUNCTION] button (page 15). These are useful when connecting this instrument to a computer, and recording your keyboard performance to music software, for example.

■ Local Control
Determines whether or not the internal Voices respond to the notes you play on the keyboard.

- ON............This is the normal default setting in which notes played on this instrument and coming from a computer via a USB cable are sounded by the internal Voices.
- OFF...........Playing notes on this instrument does not sound the internal Voices, but transmits the note data to a computer via a USB cable. The notes coming from a computer via a USB cable are sounded by the internal Voices.

This can be set by using the [FUNCTION] button (page 15).

■ External Clock
Determines whether Song/Style/Metronome playback is synchronized to the internal clock of this instrument (OFF), or to the clock signal from a computer connected to the USB TO HOST terminal (ON).

- ON............Playback will be synchronized to the clock from a computer. While no clock is being received from a computer, playback cannot be done.
- OFF...........This is the normal default setting in which the instrument uses its own internal clock.

This can be set by using the [FUNCTION] button (page 15).
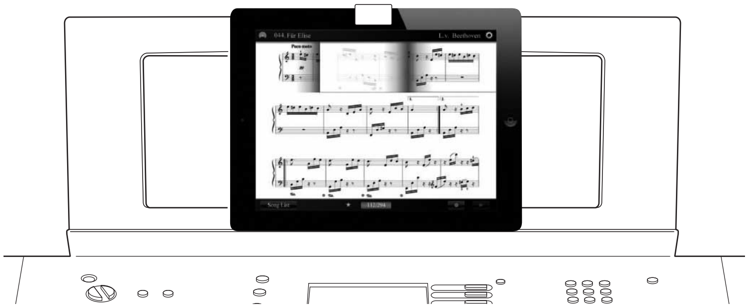
■ Initial Send (Panel Setting Transmission)
Sends the current panel settings of this instrument to a computer. When recording the keyboard performance to a computer, you can use this function to ensure that the original panel settings are automatically restored when the recorded data is played back.
This can be set by using the [FUNCTION] button (page 15).

Keyboard Lighting via Song Playback on a computer

Receiving data over MIDI channel 1 from a computer lights the corresponding notes on the keyboard. This means that you can use the Song data on a computer for keyboard practice if the melody part to be practiced is assigned to MIDI channel 1.

Page Turner of the Score on the iPad

By downloading the dedicated application, you can show the scores of the Preset Songs on the iPad screen without connection. Because the score pages are automatically turned according to playback progress, you can concentrate on playing the keyboard while viewing the score.



* iPad is sold separately.
* This function is supported only by iPad.
* iPad or App Store may not be available depending on your particular area.

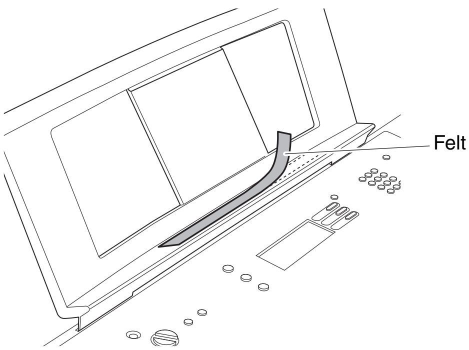
Using the Page Turner function with the dedicated application

To use the Page Turner function, download the dedicated application "EZ-220 Page Turner" (free downloadable), attach the music rest (page 6) to this instrument then follow the instructions below.

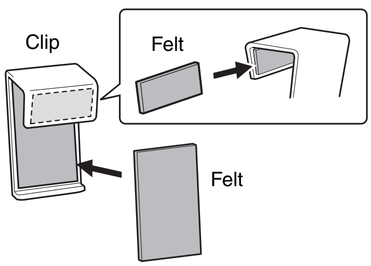
1 **Install EZ-220 Page Turner to your iPad.**
This application can be downloaded from the App Store.

2 **Attach your iPad to the music rest.**

2-1 After removing the backing paper, attach the included long felt to the bottom center of the music rest.
The felt protects the bottom of the music rest.

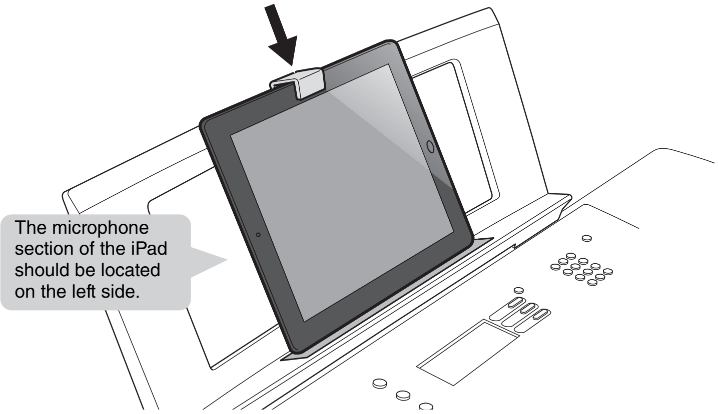


2-2 As necessary, attach the small felts to the clip as shown after removing the backing paper.
Although the clip can be used without felts, it is a good idea to attach the felts when it seems that attaching them would make the iPad more stable on the music rest.



2-3 Set your iPad on the music rest so that the microphone section of the iPad is located on the left side, then attach the clip.

The clip is intended for iPads of approximately 10-inch size.



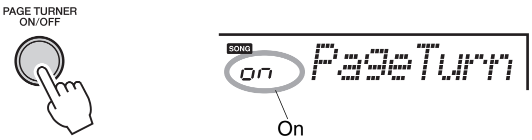
NOTICE

- **Never submit the instrument, iPad or keyboard stand to strong shocks. Doing so may cause the iPad to fall from the music rest even though the iPad is set firmly with the clip and felt.**

3 On the iPad, start EZ-220 Page Turner to call up the Tutorial.

This operation automatically calls up the Tutorial which describes instructions such as how to confirm whether or not the iPad is properly receiving the Page Turn Signals. Continue operation by following the Tutorial.

4 On the instrument, press the [PAGE TURNER ON/OFF] button to turn this function on.



Pressing this alternates the on/off status of the Page Turner.

5 Use the Page Turner function.

On the instrument, select the desired Song then start the Song Lesson (page 25). While viewing the score shown on the iPad screen, practice the Lesson part.

6 Press the [PAGE TURNER ON/OFF] button to turn this function off.

NOTICE

To prevent the iPad from falling, note the following points:

- **Make sure that the music rest is inserted firmly into the instrument.**
- **Before moving the instrument, make sure to remove the iPad from the music rest.**
- **Never slide the iPad along the music rest or submit it to strong shock, such as pushing or hitting it when on the music rest.**
- **Never put anything else on the music rest together with the iPad, such as a song booklet or another iPad. Doing so may make the music rest unstable.**
- **Never place the instrument with the iPad in an unstable position. When using a keyboard stand, make sure the instrument rests on the stand securely and firmly.**

NOTE

- *If the Tutorial is not called up successfully, tap the button at the top right corner of the window then tap "Tutorial" on the pop-up window.*
- *The [PAGE TURNER ON/OFF] button is not available when the [PHONES/OUTPUT] jack is used.*
- *Since the trigger for the Page Turn function uses audio signals output from the instrument speakers which are received by the iPad microphone, you may in rare instances be able to hear those audio signals.*
- *During playback started via the [DEMO] button, the audio signals (Page Turn signals) will be output even if the Page Turner function is turned off.*

NOTE

- *For details about the Page Turner function, refer to the Help of the EZ-220 Page Turner.*

Troubleshooting

Problem	Possible Cause and Solution
When the instrument is turned on or off, a popping sound is temporarily produced.	This is normal and indicates that the instrument is receiving electrical power.
The power is automatically turned off.	This is normal and due to the Auto Power Off function. If necessary, set the parameter of the Auto Power Off function (page 11).
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.
There is no sound even when the keyboard is played or when a Song or Style is being played back.	Check that nothing is connected to the PHONES/OUTPUT jack on the rear panel. When a set of headphones is plugged into this jack, no sound is output.
	Check the Local Control on/off. (See page 41.)
Playing keys in the right-hand area of the keyboard does not produce any sound.	When using the Chord Dictionary function (page 38), the keys in the right-hand area are used only for entering the chord root and type.
• The volume is too soft. • The sound quality is poor. • The rhythm stops unexpectedly or will not play. • All settings have been restored to their defaults. • The Song, etc. does not play correctly.	The batteries are low or dead. Replace all six batteries with completely new ones or already-recharged ones, or use the optional AC adaptor.
The Style or Song does not play back when the [START/STOP] button is pressed.	Is External Clock set to ON? Make sure External Clock is set to OFF; refer to "External Clock Settings" on page 41.
The Style does not sound properly	Make sure that the Style Volume (page 39) is set to an appropriate level.
	Is the Split Point set at an appropriate key for the cords you are playing? Set the Split Point at an appropriate key (page 39). Is the "ACMP ON" indicator showing in the display? If it is not, press the [ACMP ON/OFF] button so that it does show.
No rhythm accompaniment plays when the [START/STOP] button is pressed after selecting one of the Style numbers 093–100 (Pianist).	This is not a malfunction. Style numbers 093–100 (Pianist) have no rhythm parts, so no rhythm will play. The other parts will begin playing when you play a chord in the accompaniment range of the keyboard if Auto Accompaniment is turned on.
Not all of the voices seem to sound, or the sound seems to be cut off.	The instrument is polyphonic up to a maximum of 32 notes. If a style or Song is playing back at the same time, some notes/sounds may be omitted (or "stolen") from the accompaniment or Song.
The footswitch (for sustain) seems to produce the opposite effect. For example, pressing the footswitch cuts off the sound and releasing it sustains the sounds.	The polarity of the footswitch is reversed. Make sure that the footswitch plug is properly connected to the SUSTAIN jack before turning on the power.
The ACMP ON indicator does not appear when the [ACMP ON/OFF] button is pressed.	Always press the [STYLE] button first when you are going to use any style-related function.
The part indications, such as Right, Left and Both Hands, do not appear—even when pressing the [R] or [L] buttons for the Lesson.	Make sure that you are not pressing the [R] or [L] buttons while the Song is playing. If you press one of the part buttons while playing the Song and before starting the Lesson, these buttons serve to mute the corresponding Song parts. Stop the Song first, then select the desired part and start the Lesson.
The sound of the voice changes from note to note.	The AWM tone generation method uses multiple recordings (samples) of an instrument across the range of the keyboard; thus, the actual sound of the voice may be slightly different from note to note.
A faint, high-pitched mosquito-like sound may be heard from the internal speaker.	This is normal. Since the trigger for the Page Turn function uses audio signals (around 18kHz) output from the instrument speakers which are received by the iPad microphone, those audio signals may be heard. When you are not using the Page Turner function, it is a good idea to turn this function off.
When a Style is in use, the Page Turner function cannot be used even if the button is pressed.	This is normal. The Page Turner function can be used when the Song or Lesson is in use.

Voice List

Maximum Polyphony

The instrument has 32-note maximum polyphony. This means that it can play a maximum of up to 32 notes at once, regardless of what functions are used. Auto accompaniment uses a number of the available notes, so when auto accompaniment is used the total number of available notes for playing on the keyboard is correspondingly reduced. The same applies to the Song functions. If the maximum polyphony is exceeded, earlier played notes will be cut off and the most recent notes have priority (last note priority).

NOTE

- *The Voice List includes MIDI program change numbers for each voice. Use these program change numbers when playing the instrument via MIDI from an external device.*
- *Program change numbers are often specified as numbers "0–127." Since this list uses a "1–128" numbering system, in such cases it is necessary to subtract 1 from the transmitted program change numbers to select the appropriate sound: e.g. to select No. 2 in the list, transmit program change number 1.*
- *Some voices may sound continuously or have a long decay after the notes have been released while the sustain pedal (footswitch) is held.*
- *Audio signals of the Page Turner function use one note of polyphony.*

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
PIANO				
001	0	112	1	Grand Piano1
002	0	0	2	Bright Piano
003	0	0	4	Honky-tonk Piano
004	0	112	3	MIDI Grand Piano
005	0	0	7	Harpsichord
E.PIANO				
006	0	0	5	Electric Piano 1
007	0	0	6	Electric Piano 2
008	0	0	3	Electric Grand Piano
009	0	0	8	Clavi
ORGAN				
010	0	0	17	Drawbar Organ
011	0	0	18	Percussive Organ
012	0	0	19	Rock Organ
013	0	0	20	Church Organ
014	0	0	21	Reed Organ
ACCORDION				
015	0	0	22	Accordion
016	0	0	24	Tango Accordion
017	0	0	23	Harmonica
STRINGS				
018	0	112	49	Strings
019	0	0	50	Strings 2
020	0	0	51	Synth Strings 1
021	0	0	52	Synth Strings 2
022	0	115	50	Marcato Strings
023	0	112	45	Tremolo Strings
024	0	0	46	Pizzicato Strings
025	0	0	41	Violin
026	0	0	42	Viola
027	0	0	43	Cello
028	0	0	44	Contrabass
029	0	0	47	Orchestral Harp
030	0	0	56	Orchestra Hit
GUITAR				
031	0	0	25	Nylon Guitar
032	0	0	26	Steel Guitar
033	0	0	27	Jazz Guitar
034	0	0	28	Clean Guitar
035	0	0	29	Muted Guitar
036	0	0	30	Overdriven Guitar
037	0	0	31	Distortion Guitar
038	0	0	32	Guitar Harmonics

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
BASS				
039	0	0	33	Acoustic Bass
040	0	0	34	Finger Bass
041	0	0	35	Pick Bass
042	0	0	36	Fretless Bass
043	0	0	37	Slap Bass 1
044	0	0	38	Slap Bass 2
045	0	0	39	Synth Bass 1
046	0	0	40	Synth Bass 2
CHOIR				
047	0	0	53	Choir Aahs
048	0	0	54	Voice Oohs
049	0	0	55	Synth Voice
TRUMPET				
050	0	0	57	Trumpet
051	0	0	60	Muted Trumpet
052	0	0	58	Trombone
053	0	0	61	French Horn
054	0	0	59	Tuba
BRASS				
055	0	0	62	Brass Section
056	0	112	63	Synth Brass
057	0	115	63	Funky Analog
058	0	114	63	Techno Brass
059	0	0	63	Synth Brass 1
060	0	0	64	Synth Brass 2
SAXOPHONE				
061	0	0	67	Tenor Sax
062	0	0	66	Alto Sax
063	0	112	65	Soprano Sax
064	0	0	68	Baritone Sax
065	0	112	69	Oboe
066	0	0	72	Clarinet
067	0	0	70	English Horn
068	0	0	71	Bassoon
FLUTE				
069	0	115	74	Flute
070	0	0	73	Piccolo
071	0	0	76	Pan Flute
072	0	0	75	Recorder
073	0	0	77	Blown Bottle
074	0	0	78	Shakuhachi
075	0	0	79	Whistle
076	0	0	80	Ocarina

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
SYNTH LEAD				
077	0	121	82	Funky Lead
078	0	112	85	Portatone
079	0	112	88	UnderHeim
080	0	0	81	Square Lead
081	0	0	82	Sawtooth Lead
082	0	0	83	Calliope Lead
083	0	0	84	Chiff Lead
084	0	0	85	Charang Lead
085	0	0	86	Voice Lead
086	0	0	87	Fifths Lead
087	0	0	88	Bass & Lead
SYNTH PAD				
088	0	112	89	Fantasia
089	0	113	89	Symbiont
090	0	118	89	Sweet Heaven
091	0	121	89	Dream Heaven
092	0	0	89	New Age Pad
093	0	0	90	Warm Pad
094	0	0	91	Poly Synth Pad
095	0	0	92	Choir Pad
096	0	0	93	Bowed Pad
097	0	0	94	Metallic Pad
098	0	0	95	Halo Pad
099	0	0	96	Sweep Pad
PERCUSSION				
100	0	0	12	Vibraphone
101	0	0	13	Marimba
102	0	0	14	Xylophone
103	0	0	115	Steel Drums
104	0	0	9	Celesta
105	0	0	11	Music Box
106	0	0	15	Tubular Bells
107	0	0	48	Timpani
108	0	0	10	Glockenspiel
109	0	0	113	Tinkle Bell
110	0	0	114	Agogo
111	0	0	116	Woodblock
112	0	0	117	Taiko Drum
113	0	0	118	Melodic Tom
114	0	0	119	Synth Drum
115	0	0	120	Reverse Cymbal
WORLD				
116	0	0	105	Sitar
117	0	0	16	Dulcimer
118	0	0	106	Banjo
119	0	0	107	Shamisen
120	0	0	108	Koto
121	0	0	109	Kalimba
122	0	0	110	Bagpipe
123	0	0	111	Fiddle
124	0	0	112	Shanai
SYNTH EFFECTS				
125	0	0	97	Rain
126	0	0	98	Sound Track
127	0	0	99	Crystal
128	0	0	100	Atmosphere
129	0	0	101	Brightness
130	0	0	102	Goblins
131	0	0	103	Echoes
132	0	0	104	Sci-Fi
SOUND EFFECTS				
133	0	0	121	Fret Noise
134	0	0	122	Breath Noise

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
135	0	0	123	Seashore
136	0	0	124	Bird Tweet
137	0	0	125	Telephone Ring
138	0	0	126	Helicopter
139	0	0	127	Applause
140	0	0	128	Gunshot
DRUM KITS				
141	127	0	1	Standard Kit 1
142	127	0	2	Standard Kit 2
143	127	0	9	Room Kit
144	127	0	17	Rock Kit
145	127	0	25	Electronic Kit
146	127	0	26	Analog Kit
147	127	0	28	Dance Kit
148	127	0	33	Jazz Kit
149	127	0	41	Brush Kit
150	127	0	49	Symphony Kit
151	126	0	1	SFX Kit 1
152	126	0	2	SFX Kit 2
153	126	0	113	Sound Effect Kit
XGlite				
154	0	0	1	Grand Piano
155	0	1	1	Grand Piano KSP
156	0	40	1	Piano Strings
157	0	41	1	Dream
158	0	1	2	Bright Piano KSP
159	0	1	3	Electric Grand Piano KSP
160	0	32	3	Detuned CP80
161	0	1	4	Honky-tonk Piano KSP
162	0	1	5	Electric Piano 1 KSP
163	0	32	5	Chorus Electric Piano 1
164	0	1	6	Electric Piano 2 KSP
165	0	32	6	Chorus Electric Piano 2
166	0	41	6	DX + Analog Electric Piano
167	0	1	7	Harpsichord KSP
168	0	35	7	Harpsichord 2
169	0	1	8	Clavi KSP
170	0	64	11	Orgel
171	0	1	12	Vibraphone KSP
172	0	1	13	Marimba KSP
173	0	64	13	Sine Marimba
174	0	97	13	Balimba
175	0	98	13	Log Drums
176	0	96	15	Church Bells
177	0	97	15	Carillon
178	0	35	16	Dulcimer 2
179	0	96	16	Cimbalom
180	0	97	16	Santur
181	0	32	17	Detuned Drawbar Organ
182	0	33	17	60's Drawbar Organ 1
183	0	34	17	60's Drawbar Organ 2
184	0	35	17	70's Drawbar Organ 1
185	0	37	17	60's Drawbar Organ 3
186	0	40	17	16+2'2/3
187	0	64	17	Organ Bass
188	0	65	17	70's Drawbar Organ 2
189	0	66	17	Cheezy Organ
190	0	67	17	Drawbar Organ 2
191	0	24	18	70's Percussive Organ
192	0	32	18	Detuned Percussive Organ
193	0	33	18	Light Organ
194	0	37	18	Percussive Organ 2
195	0	64	19	Rotary Organ
196	0	65	19	Slow Rotary

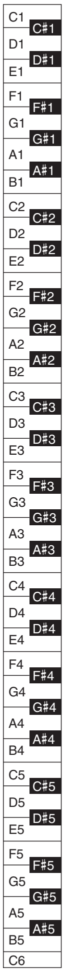
Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
197	0	66	19	Fast Rotary
198	0	32	20	Church Organ 3
199	0	35	20	Church Organ 2
200	0	40	20	Notre Dame
201	0	64	20	Organ Flute
202	0	65	20	Tremolo Organ Flute
203	0	40	21	Puff Organ
204	0	32	23	Harmonica 2
205	0	64	24	Tango Accordion 2
206	0	43	25	Velocity Guitar Harmonics
207	0	96	25	Ukulele
208	0	35	26	12-string Guitar
209	0	40	26	Nylon & Steel Guitar
210	0	41	26	Steel Guitar with Body Sound
211	0	96	26	Mandolin
212	0	32	27	Jazz Amp
213	0	32	28	Chorus Guitar
214	0	40	29	Funk Guitar
215	0	41	29	Muted Steel Guitar
216	0	45	29	Jazz Man
217	0	43	30	Guitar Pinch
218	0	40	31	Feedback Guitar
219	0	41	31	Feedback Guitar 2
220	0	65	32	Guitar Feedback
221	0	66	32	Guitar Harmonics 2
222	0	40	33	Jazz Rhythm
223	0	45	33	Velocity Crossfade Upright Bass
224	0	18	34	Finger Dark
225	0	40	34	Bass & Distorted Electric Guitar
226	0	43	34	Finger Slap Bass
227	0	45	34	Finger Bass 2
228	0	65	34	Modulated Bass
229	0	28	35	Muted Pick Bass
230	0	32	36	Fretless Bass 2
231	0	33	36	Fretless Bass 3
232	0	34	36	Fretless Bass 4
233	0	32	37	Punch Thumb Bass
234	0	43	38	Velocity Switch Slap
235	0	40	39	Techno Synth Bass
236	0	6	40	Mellow Synth Bass
237	0	12	40	Sequenced Bass
238	0	18	40	Click Synth Bass
239	0	19	40	Synth Bass 2 Dark
240	0	40	40	Modular Synth Bass
241	0	41	40	DX Bass
242	0	8	41	Slow Violin
243	0	0	45	Tremolo Strings
244	0	8	45	Slow Tremolo Strings
245	0	40	45	Suspense Strings
246	0	40	47	Yang Chin
247	0	0	49	Strings 1
248	0	3	49	Stereo Strings
249	0	8	49	Slow Strings
250	0	35	49	60's Strings
251	0	40	49	Orchestra
252	0	41	49	Orchestra 2
253	0	42	49	Tremolo Orchestra
254	0	45	49	Velocity Strings
255	0	3	50	Stereo Slow Strings
256	0	8	50	Legato Strings
257	0	40	50	Warm Strings
258	0	41	50	Kingdom
259	0	3	53	Stereo Choir
260	0	32	53	Mellow Choir

Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
261	0	40	53	Choir Strings
262	0	40	55	Synth Voice 2
263	0	41	55	Choral
264	0	64	55	Analog Voice
265	0	35	56	Orchestra Hit 2
266	0	64	56	Impact
267	0	32	57	Warm Trumpet
268	0	18	58	Trombone 2
269	0	6	61	French Horn Solo
270	0	32	61	French Horn 2
271	0	37	61	Horn Orchestra
272	0	35	62	Trumpet & Trombone Section
273	0	20	63	Resonant Synth Brass
274	0	18	64	Soft Brass
275	0	41	64	Choir Brass
276	0	0	65	Soprano Sax
277	0	40	66	Sax Section
278	0	40	67	Breathy Tenor Sax
279	0	0	69	Oboe
280	0	0	74	Flute
281	0	6	81	Square Lead 2
282	0	8	81	LM Square
283	0	18	81	Hollow
284	0	19	81	Shroud
285	0	64	81	Mellow
286	0	65	81	Solo Sine
287	0	66	81	Sine Lead
288	0	6	82	Sawtooth Lead 2
289	0	8	82	Thick Sawtooth
290	0	18	82	Dynamic Sawtooth
291	0	19	82	Digital Sawtooth
292	0	20	82	Big Lead
293	0	96	82	Sequenced Analog
294	0	65	83	Pure Lead
295	0	64	85	Distorted Lead
296	0	35	87	Big Five
297	0	16	88	Big & Low
298	0	64	88	Fat & Perky
299	0	65	88	Soft Whirl
300	0	64	89	Fantasy
301	0	66	92	Itopia
302	0	65	97	African Wind
303	0	66	97	Carib
304	0	27	98	Prologue
305	0	12	99	Synth Drum Comp
306	0	14	99	Popcorn
307	0	18	99	Tiny Bells
308	0	35	99	Round Glockenspiel
309	0	40	99	Glockenspiel Chimes
310	0	41	99	Clear Bells
311	0	42	99	Chorus Bells
312	0	65	99	Soft Crystal
313	0	70	99	Air Bells
314	0	71	99	Bell Harp
315	0	72	99	Gamelimba
316	0	18	100	Warm Atmosphere
317	0	19	100	Hollow Release
318	0	40	100	Nylon Electric Piano
319	0	64	100	Nylon Harp
320	0	65	100	Harp Vox
321	0	66	100	Atmosphere Pad
322	0	64	102	Goblins Synth
323	0	65	102	Creeper
324	0	67	102	Ritual

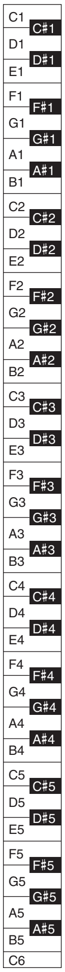
Voice No.	Bank Select MSB (0–127)	Bank Select LSB (0–127)	Program Numbers (1–128)	Voice Name
325	0	68	102	To Heaven
326	0	70	102	Night
327	0	71	102	Glisten
328	0	96	102	Bell Choir
329	0	32	105	Detuned Sitar
330	0	35	105	Sitar 2
331	0	97	105	Tamboura
332	0	28	106	Muted Banjo
333	0	96	106	Rabab
334	0	97	106	Gopichant
335	0	98	106	Oud
336	0	96	108	Taisho-kin
337	0	97	108	Kanoon
338	0	96	113	Bonang
339	0	97	113	Altair
340	0	98	113	Gamelan Gongs
341	0	99	113	Stereo Gamelan Gongs
342	0	100	113	Rama Cymbal
343	0	97	115	Glass Percussion
344	0	98	115	Thai Bells
345	0	96	116	Castanets
346	0	96	117	Gran Cassa
347	0	64	118	Melodic Tom 2
348	0	65	118	Real Tom
349	0	66	118	Rock Tom
350	0	64	119	Analog Tom
351	0	65	119	Electronic Percussion
352	64	0	1	Cutting Noise
353	64	0	2	Cutting Noise 2
354	64	0	4	String Slap
355	64	0	17	Flute Key Click
356	64	0	33	Shower
357	64	0	34	Thunder
358	64	0	35	Wind
359	64	0	36	Stream
360	64	0	37	Bubble
361	64	0	38	Feed
362	64	0	49	Dog
363	64	0	50	Horse
364	64	0	51	Bird Tweet 2
365	64	0	56	Maou
366	64	0	65	Phone Call
367	64	0	66	Door Squeak
368	64	0	67	Door Slam
369	64	0	68	Scratch Cut
370	64	0	69	Scratch Split
371	64	0	70	Wind Chime
372	64	0	71	Telephone Ring 2
373	64	0	81	Car Engine Ignition
374	64	0	82	Car Tires Squeal
375	64	0	83	Car Passing
376	64	0	84	Car Crash
377	64	0	85	Siren
378	64	0	86	Train
379	64	0	87	Jet Plane
380	64	0	88	Starship
381	64	0	89	Burst
382	64	0	90	Roller Coaster
383	64	0	91	Submarine
384	64	0	97	Laugh
385	64	0	98	Scream
386	64	0	99	Punch
387	64	0	100	Heartbeat
388	64	0	101	Footsteps
389	64	0	113	Machine Gun
390	64	0	114	Laser Gun
391	64	0	115	Explosion
392	64	0	116	Firework

Drum Kit List

- “ ” indicates that the drum sound is the same as “Standard Kit 1”.
- Each percussion voice uses one note.
- The MIDI Note # and Note are actually one octave lower than keyboard Note # and Note. For example, in “Standard Kit 1”, the “Seq Click H” (Note# 36/ Note C1) corresponds to (Note# 24/Note C0).
- Key Off: Keys marked “O” stop sounding the instant they are released.
- Voices with the same Alternate Note Number (*1 … 4) cannot be played simultaneously. (They are designed to be played alternately with each other.)



Voice No.						141	142	143	144	145
MSB (0–127) / LSB (0–127) / PC (1–128)						127/000/001	127/000/002	127/000/009	127/000/017	127/000/025
Keyboard		MIDI		Key Off	Alternate Group	Standard Kit 1	Standard Kit 2	Room Kit	Rock Kit	Electronic Kit
Note#	Note	Note#	Note							
25	C# 0	13	C# -1		3	Surdo Mute				
26	D 0	14	D -1		3	Surdo Open				
27	D# 0	15	D# -1			Hi Q				
28	E 0	16	E -1			Whip Slap				
29	F 0	17	F -1		4	Scratch Push				
30	F# 0	18	F# -1		4	Scratch Pull				
31	G 0	19	G -1			Finger Snap				
32	G# 0	20	G# -1			Click Noise				
33	A 0	21	A -1			Metronome Click				
34	A# 0	22	A# -1			Metronome Bell				
35	B 0	23	B -1			Seq Click L				
36	C 1	24	C 0			Seq Click H				
37	C# 1	25	C# 0			Brush Tap				
38	D 1	26	D 0	O		Brush Swirl				
39	D# 1	27	D# 0			Brush Slap				
40	E 1	28	E 0	O		Brush Tap Swirl				Reverse Cymbal
41	F 1	29	F 0	O		Snare Roll				
42	F# 1	30	F# 0			Castanet				Hi Q 2
43	G 1	31	G 0			Snare H Soft	Snare H Soft 2		SD Rock H	Snare L
44	G# 1	32	G# 0			Sticks				
45	A 1	33	A 0			Bass Drum Soft				Bass Drum H
46	A# 1	34	A# 0			Open Rim Shot	Open Rim Shot 2			
47	B 1	35	B 0			Bass Drum Hard			Bass Drum H	BD Rock
48	C 2	36	C 1			Bass Drum	Bass Drum 2		BD Rock	BD Gate
49	C# 2	37	C# 1			Side Stick				
50	D 2	38	D 1			Snare M	Snare M 2	SD Room L	SD Rock L	SD Rock L
51	D# 2	39	D# 1			Hand Clap				
52	E 2	40	E 1			Snare H Hard	Snare H Hard 2	SD Room H	SD Rock Rim	SD Rock H
53	F 2	41	F 1			Floor Tom L		Room Tom 1	Rock Tom 1	E Tom 1
54	F# 2	42	F# 1		1	Hi-Hat Closed				
55	G 2	43	G 1			Floor Tom H		Room Tom 2	Rock Tom 2	E Tom 2
56	G# 2	44	G# 1		1	Hi-Hat Pedal				
57	A 2	45	A 1			Low Tom		Room Tom 3	Rock Tom 3	E Tom 3
58	A# 2	46	A# 1		1	Hi-Hat Open				
59	B 2	47	B 1			Mid Tom L		Room Tom 4	Rock Tom 4	E Tom 4
60	C 3	48	C 2			Mid Tom H		Room Tom 5	Rock Tom 5	E Tom 5
61	C# 3	49	C# 2			Crash Cymbal 1				
62	D 3	50	D 2			High Tom		Room Tom 6	Rock Tom 6	E Tom 6
63	D# 3	51	D# 2			Ride Cymbal 1				
64	E 3	52	E 2			Chinese Cymbal				
65	F 3	53	F 2			Ride Cymbal Cup				
66	F# 3	54	F# 2			Tambourine				
67	G 3	55	G 2			Splash Cymbal				
68	G# 3	56	G# 2			Cowbell				
69	A 3	57	A 2			Crash Cymbal 2				
70	A# 3	58	A# 2			Vibraslap				
71	B 3	59	B 2			Ride Cymbal 2				
72	C 4	60	C 3			Bongo H				
73	C# 4	61	C# 3			Bongo L				
74	D 4	62	D 3			Conga H Mute				
75	D# 4	63	D# 3			Conga H Open				
76	E 4	64	E 3			Conga L				
77	F 4	65	F 3			Timbale H				
78	F# 4	66	F# 3			Timbale L				
79	G 4	67	G 3			Agogo H				
80	G# 4	68	G# 3			Agogo L				
81	A 4	69	A 3			Cabasa				
82	A# 4	70	A# 3			Maracas				
83	B 4	71	B 3	O		Samba Whistle H				
84	C 5	72	C 4	O		Samba Whistle L				
85	C# 5	73	C# 4			Guiro Short				
86	D 5	74	D 4	O		Guiro Long				
87	D# 5	75	D# 4			Claves				
88	E 5	76	E 4			Wood Block H				
89	F 5	77	F 4			Wood Block L				
90	F# 5	78	F# 4			Cuica Mute				Scratch Push
91	G 5	79	G 4			Cuica Open				Scratch Pull
92	G# 5	80	G# 4		2	Triangle Mute				
93	A 5	81	A 4		2	Triangle Open				
94	A# 5	82	A# 4			Shaker				
95	B 5	83	B 4			Jingle Bell				
96	C 6	84	C 5			Bell Tree				
97	C# 6	85	C# 5							
98	D 6	86	D 5							
99	D# 6	87	D# 5							
100	E 6	88	E 5							
101	F 6	89	F 5							
102	F# 6	90	F# 5							
103	G 6	91	G 5							



Voice No.						141	146	147	148	149
MSB (0–127) / LSB (0–127) / PC (1–128)						127/000/001	127/000/026	127/000/028	127/000/033	127/000/041
Keyboard		MIDI		Key Off	Alternate Group	Standard Kit 1	Analog Kit	Dance Kit	Jazz Kit	Brush Kit
Note#	Note	Note#	Note							
25	C# 0	13	C# -1		3	Surdo Mute				
26	D 0	14	D -1		3	Surdo Open				
27	D# 0	15	D# -1			Hi Q				
28	E 0	16	E -1			Whip Slap				
29	F 0	17	F -1		4	Scratch Push				
30	F# 0	18	F# -1		4	Scratch Pull				
31	G 0	19	G -1			Finger Snap				
32	G# 0	20	G# -1			Click Noise				
33	A 0	21	A -1			Metronome Click				
34	A# 0	22	A# -1			Metronome Bell				
35	B 0	23	B -1			Seq Click L				
36	C 1	24	C 0			Seq Click H				
37	C# 1	25	C# 0			Brush Tap				
38	D 1	26	D 0	O		Brush Swirl				
39	D# 1	27	D# 0			Brush Slap				
40	E 1	28	E 0	O		Brush Tap Swirl	Reverse Cymbal	Reverse Cymbal		
41	F 1	29	F 0	O		Snare Roll				
42	F# 1	30	F# 0			Castanet	Hi Q 2	Hi Q 2		
43	G 1	31	G 0			Snare H Soft	SD Rock H	AnSD Snappy	SD Jazz H Light	Brush Slap L
44	G# 1	32	G# 0			Sticks				
45	A 1	33	A 0			Bass Drum Soft	Bass Drum H	AnBD Dance-1		
46	A# 1	34	A# 0			Open Rim Shot		AnSD OpenRim		
47	B 1	35	B 0			Bass Drum Hard	BD Analog L	AnBD Dance-2		
48	C 2	36	C 1			Bass Drum	BD Analog H	AnBD Dance-3	BD Jazz	BD Jazz
49	C# 2	37	C# 1			Side Stick	Analog Side Stick	Analog Side Stick		
50	D 2	38	D 1			Snare M	Analog Snare 1	AnSD Q	SD Jazz L	Brush Slap
51	D# 2	39	D# 1			Hand Clap				
52	E 2	40	E 1			Snare H Hard	Analog Snare 2	AnSD Ana+Acoustic	SD Jazz M	Brush Tap
53	F 2	41	F 1			Floor Tom L	Analog Tom 1	Analog Tom 1	Jazz Tom 1	Brush Tom 1
54	F# 2	42	F# 1		1	Hi-Hat Closed	Analog HH Closed 1	Analog HH Closed 3		
55	G 2	43	G 1			Floor Tom H	Analog Tom 2	Analog Tom 2	Jazz Tom 2	Brush Tom 2
56	G# 2	44	G# 1		1	Hi-Hat Pedal	Analog HH Closed 2	Analog HH Closed 4		
57	A 2	45	A 1			Low Tom	Analog Tom 3	Analog Tom 3	Jazz Tom 3	Brush Tom 3
58	A# 2	46	A# 1		1	Hi-Hat Open	Analog HH Open	Analog HH Open 2		
59	B 2	47	B 1			Mid Tom L	Analog Tom 4	Analog Tom 4	Jazz Tom 4	Brush Tom 4
60	C 3	48	C 2			Mid Tom H	Analog Tom 5	Analog Tom 5	Jazz Tom 5	Brush Tom 5
61	C# 3	49	C# 2			Crash Cymbal 1	Analog Cymbal	Analog Cymbal		
62	D 3	50	D 2			High Tom	Analog Tom 6	Analog Tom 6	Jazz Tom 6	Brush Tom 6
63	D# 3	51	D# 2			Ride Cymbal 1				
64	E 3	52	E 2			Chinese Cymbal				
65	F 3	53	F 2			Ride Cymbal Cup				
66	F# 3	54	F# 2			Tambourine				
67	G 3	55	G 2			Splash Cymbal				
68	G# 3	56	G# 2			Cowbell	Analog Cowbell	Analog Cowbell		
69	A 3	57	A 2			Crash Cymbal 2				
70	A# 3	58	A# 2			Vibraslap				
71	B 3	59	B 2			Ride Cymbal 2				
72	C 4	60	C 3			Bongo H				
73	C# 4	61	C# 3			Bongo L				
74	D 4	62	D 3			Conga H Mute	Analog Conga H	Analog Conga H		
75	D# 4	63	D# 3			Conga H Open	Analog Conga M	Analog Conga M		
76	E 4	64	E 3			Conga L	Analog Conga L	Analog Conga L		
77	F 4	65	F 3			Timbale H				
78	F# 4	66	F# 3			Timbale L				
79	G 4	67	G 3			Agogo H				
80	G# 4	68	G# 3			Agogo L				
81	A 4	69	A 3			Cabasa				
82	A# 4	70	A# 3			Maracas	Analog Maracas	Analog Maracas		
83	B 4	71	B 3	O		Samba Whistle H				
84	C 5	72	C 4	O		Samba Whistle L				
85	C# 5	73	C# 4			Guiro Short				
86	D 5	74	D 4	O		Guiro Long				
87	D# 5	75	D# 4			Claves	Analog Claves	Analog Claves		
88	E 5	76	E 4			Wood Block H				
89	F 5	77	F 4			Wood Block L				
90	F# 5	78	F# 4			Cuica Mute	Scratch Push	Scratch Push		
91	G 5	79	G 4			Cuica Open	Scratch Pull	Scratch Pull		
92	G# 5	80	G# 4		2	Triangle Mute				
93	A 5	81	A 4		2	Triangle Open				
94	A# 5	82	A# 4			Shaker				
95	B 5	83	B 4			Jingle Bell				
96	C 6	84	C 5			Bell Tree				
97	C# 6	85	C# 5							
98	D 6	86	D 5							
99	D# 6	87	D# 5							
100	E 6	88	E 5							
101	F 6	89	F 5							
102	F# 6	90	F# 5							
103	G 6	91	G 5							

	Voice No.						141	150	151	152	153
	MSB (0–127) / LSB (0–127) / PC (1–128)						127/000/001	127/000/049	126/000/001	126/000/002	126/000/113
	Keyboard		MIDI		Key Off	Alternate Group	Standard Kit 1	Symphony Kit	SFX Kit 1	SFX Kit 2	Sound Effect Kit
	Note#	Note	Note#	Note							
	25	C# 0	13	C# -1		3	Surdo Mute				
	26	D 0	14	D -1		3	Surdo Open				
	27	D# 0	15	D# -1			Hi Q				
	28	E 0	16	E -1			Whip Slap				
	29	F 0	17	F -1		4	Scratch Push				
	30	F# 0	18	F# -1		4	Scratch Pull				
	31	G 0	19	G -1			Finger Snap				
	32	G# 0	20	G# -1			Click Noise				
	33	A 0	21	A -1			Metronome Click				
	34	A# 0	22	A# -1			Metronome Bell				
	35	B 0	23	B -1			Seq Click L				
C1	36	C 1	24	C 0			Seq Click H				
C#1	37	C# 1	25	C# 0			Brush Tap				
D1	38	D 1	26	D 0	O		Brush Swirl				
D#1	39	D# 1	27	D# 0			Brush Slap				
E1	40	E 1	28	E 0	O		Brush Tap Swirl				
F1	41	F 1	29	F 0	O		Snare Roll				Drum Loop
F#1	42	F# 1	30	F# 0			Castanet				
G1	43	G 1	31	G 0			Snare H Soft				
G#1	44	G# 1	32	G# 0			Sticks				
A1	45	A 1	33	A 0			Bass Drum Soft	Bass Drum L			
A#1	46	A# 1	34	A# 0			Open Rim Shot				
B1	47	B 1	35	B 0			Bass Drum Hard	Gran Cassa			
C2	48	C 2	36	C 1			Bass Drum	Gran Cassa Mute	Cutting Noise	Phone Call	Heartbeat
C#2	49	C# 2	37	C# 1			Side Stick		Cutting Noise 2	Door Squeak	Footsteps
D2	50	D 2	38	D 1			Snare M	Marching Sn M		Door Slam	Door Squeak
D#2	51	D# 2	39	D# 1			Hand Clap		String Slap	Scratch Cut	Door Slam
E2	52	E 2	40	E 1			Snare H Hard	Marching Sn H		Scratch	Applause
F2	53	F 2	41	F 1			Floor Tom L	Jazz Tom 1		Wind Chime	Camera
F#2	54	F# 2	42	F# 1		1	Hi-Hat Closed			Telephone Ring 2	Horn
G2	55	G 2	43	G 1			Floor Tom H	Jazz Tom 2			Hiccup
G#2	56	G# 2	44	G# 1		1	Hi-Hat Pedal				Cuckoo Clock
A2	57	A 2	45	A 1			Low Tom	Jazz Tom 3			Stream
A#2	58	A# 2	46	A# 1		1	Hi-Hat Open				Frog
B2	59	B 2	47	B 1			Mid Tom L	Jazz Tom 4			Rooster
C3	60	C 3	48	C 2			Mid Tom H	Jazz Tom 5			Dog
C#3	61	C# 3	49	C# 2			Crash Cymbal 1	Hand Cym. L			Cat
D3	62	D 3	50	D 2			High Tom	Jazz Tom 6			Owl
D#3	63	D# 3	51	D# 2			Ride Cymbal 1	Hand Cym.Short L			Horse Gallop
E3	64	E 3	52	E 2			Chinese Cymbal		Flute Key Click	Car Engine Ignition	Horse Neigh
F3	65	F 3	53	F 2			Ride Cymbal Cup			Car Tires Squeal	Cow
F#3	66	F# 3	54	F# 2			Tambourine			Car Passing	Lion
G3	67	G 3	55	G 2			Splash Cymbal			Car Crash	Scratch
G#3	68	G# 3	56	G# 2			Cowbell			Siren	Yo!
A3	69	A 3	57	A 2			Crash Cymbal 2	Hand Cym. H		Train	Go!
A#3	70	A# 3	58	A# 2			Vibraslap			Jet Plane	Get up!
B3	71	B 3	59	B 2			Ride Cymbal 2	Hand Cym.Short H		Starship	Whoow!
C4	72	C 4	60	C 3			Bongo H			Burst	
C#4	73	C# 4	61	C# 3			Bongo L			Roller Coaster	
D4	74	D 4	62	D 3			Conga H Mute			Submarine	
D#4	75	D# 4	63	D# 3			Conga H Open				
E4	76	E 4	64	E 3			Conga L				
F4	77	F 4	65	F 3			Timbale H				Huuaah!
F#4	78	F# 4	66	F# 3			Timbale L				
G4	79	G 4	67	G 3			Agogo H				
G#4	80	G# 4	68	G# 3			Agogo L		Shower	Laugh	
A4	81	A 4	69	A 3			Cabasa		Thunder	Scream	
A#4	82	A# 4	70	A# 3			Maracas		Wind	Punch	
B4	83	B 4	71	B 3	O		Samba Whistle H		Stream	Heartbeat	
C5	84	C 5	72	C 4	O		Samba Whistle L		Bubble	Footsteps	
C#5	85	C# 5	73	C# 4			Guiro Short		Feed		
D5	86	D 5	74	D 4	O		Guiro Long				
D#5	87	D# 5	75	D# 4			Claves				
E5	88	E 5	76	E 4			Wood Block H				
F5	89	F 5	77	F 4			Wood Block L				
F#5	90	F# 5	78	F# 4			Cuica Mute				Uh!+Hit
G5	91	G 5	79	G 4			Cuica Open				
G#5	92	G# 5	80	G# 4		2	Triangle Mute				
A5	93	A 5	81	A 4		2	Triangle Open				
A#5	94	A# 5	82	A# 4			Shaker				
B5	95	B 5	83	B 4			Jingle Bell				
C6	96	C 6	84	C 5			Bell Tree		Dog	Machine Gun	
	97	C# 6	85	C# 5					Horse	Laser Gun	
	98	D 6	86	D 5					Bird Tweet 2	Explosion	
	99	D# 6	87	D# 5						Firework	
	100	E 6	88	E 5							
	101	F 6	89	F 5							
	102	F# 6	90	F# 5							
	103	G 6	91	G 5					Maou		

Effect Type List

Reverb Types

No.	Reverb Type	Description
01–03	Hall 1–3	Concert hall reverb.
04–05	Room 1–2	Small room reverb.
06–07	Stage 1–2	Reverb for solo instruments.
08–09	Plate 1–2	Simulated steel plate reverb.
10	Off	No effect.

Style List

Style No.	Style Name
8Beat	
001	8BeatModern
002	60sGtrPop
003	8BeatAdria
004	60s8Beat
005	8Beat
006	OffBeat
007	60sRock
008	HardRock
009	RockShuffle
010	8BeatRock
16Beat	
011	16Beat
012	PopShuffle
013	GuitarPop
014	16BtUptempo
015	KoolShuffle
016	HipHopLight
Ballad	
017	PianoBallad
018	LoveSong
019	6/8ModernEP
020	6/8SlowRock
021	OrganBallad
022	PopBallad
023	16BeatBallad
Dance	
024	EuroTrance
025	Ibiza
026	SwingHouse
027	Clubdance
028	ClubLatin
029	Garage1
030	Garage2
031	TechnoParty
032	UKPop
033	HipHopGroove
034	HipShuffle
035	HipHopPop
Disco	
036	70sDisco
037	LatinDisco
038	SaturdayNight
039	DiscoHands
Swing&Jazz	
040	BigBandFast
041	BigBandBallad
042	JazzClub
043	Swing1
044	Swing2
045	Five/Four
046	Dixieland
047	Ragtime

Style No.	Style Name
R&B	
048	Soul
049	DetroitPop
050	6/8Soul
051	CrocoTwist
052	Rock&Roll
053	ComboBoogie
054	6/8Blues
Country	
055	CountryPop
056	CountrySwing
057	Country2/4
058	Bluegrass
Latin	
059	BrazilianSamba
060	BossaNova
061	Tijuana
062	DiscoLatin
063	Mambo
064	Salsa
065	Beguine
066	Reggae
Ballroom	
067	VienneseWaltz
068	EnglishWaltz
069	Slowfox
070	Foxtrot
071	Quickstep
072	Tango
073	Pasodoble
074	Samba
075	ChaChaCha
076	Rumba
077	Jive
Traditional	
078	USMarch
079	6/8March
080	GermanMarch
081	PolkaPop
082	OberPolka
083	Tarantella
084	Showtune
085	ChristmasSwing
086	ChristmasWaltz
087	ScottishReel
Waltz	
088	SwingWaltz
089	JazzWaltz
090	CountryWaltz
091	OberWalzer
092	Musette

Style No.	Style Name
Pianist	
093	Stride
094	PianoSwing
095	Arpeggio
096	Habanera
097	SlowRock
098	8BeatPianoBallad
099	6/8PianoMarch
100	PianoWaltz

Specifications

Size/Weight	Dimensions	W x D x H	945 x 348 x 111 mm (37-3/16” x 13-11/16” x 4-3/8”)
	Weight		4.4 kg (9 lbs. 11 oz.) (not including batteries)
Keyboard	Number of Keys		61
	Touch Sensitivity		Yes
	Light Guide		Yes
Display	Type		LCD display
	Language		English
Panel	Language		English
Voices	Tone Generation	Tone Generating Technology	AWM Stereo Sampling
	Polyphony	Number of Polyphony (Max.)	32
	Preset	Number of Voices	392 (Stereo Grand Piano + 361 XGlite voices + 17 XGlite option voices + 12 drum kits + 1 sound effect kit)
	Compatibility		GM/XGlite
Effects		Reverb	9 types
		Panel Sustain	Yes
Accompaniment Styles	Preset	Number of Preset Styles	100
		Fingering	Multi fingering
		Style Control	ACMP ON/OFF, SYNC START, START/STOP, INTRO/ENDING/rit., MAIN/AUTO FILL
	Other Features	One Touch Setting (OTS)	Yes
Songs	Preset	Number of Preset Songs	100 + Demo
	Other Features	Page Turner (iPad)	Yes
Functions	Lesson		LISTEN & LEARN, TIMING, WAITING, Chord Dictionary
	Overall Controls	Metronome	Yes
		Tempo Range	11 – 280
		Transpose	-12 – 0 – +12
		Tuning	427.0 – 440.0 – 453.0 Hz
	Miscellaneous	Portable Grand Button	Yes
Connectivity			USB TO HOST, DC IN 12V, PHONES/OUTPUT, SUSTAIN
Amplifiers and Speakers	Amplifiers		2.5W + 2.5W
	Speakers		12cm x 2
Power Supply	Power Supply		• Adaptor: Users within U.S or Europe: PA-130 or an equivalent recommended by Yamaha Others: PA-3C, PA-130 or an equivalent
			• Batteries: Six batteries (1.5V “AA” size Alkaline/Manganese or 1.2V rechargeable Ni-MH)
	Power Consumption		7W (When using PA-130 power adaptor)
	Auto Power Off Function		Yes
Included Accessories			• Music Rest • Owner’s Manual • Song Book • Felt pad • Clip • My Yamaha Product User Registration • AC Power adaptor* (PA-130 or an equivalent recommended by Yamaha) * May not be included depending on your particular area. Please check with your Yamaha dealer.
Optional Accessories			• AC Power Adaptor: PA-130 or an equivalent recommended by Yamaha • Footswitch: FC4/FC5 • Keyboard Stand: L-2C • Headphones: HPE-150/HPE-30

* Specifications and descriptions in this owner’s manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

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Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

English

Important Notice: Guarantee Information for customers in EEA* and Switzerland
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Deutsch

Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz
Für nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgend angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsraum

Français

Remarque importante: informations de garantie pour les clients de l'EEE et la Suisse
Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Economique Européen

Nederlands

Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland
Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vind een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte

Español

Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza
Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la version del archivo para imprimir esta disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo

Italiano

Avviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera
Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nei paesi EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea

Português

Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça
Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Econômica Européia

Ελληνικά

Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία
Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ και την Ελβετία, επισκεφτείτε την παρακάτω ιστοσελίδα (Εκτυπώσιμη μορφή είναι διαθέσιμη στην ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος

Svenska

Viktigt: Garantiinformation för kunder i EES-området* och Schweiz
För detaljerad information om denna Yamahaprodukt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbaddress (en utskriftsvänlig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet

Norsk

Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits
Detaljert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettadressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte kontakte Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet

Dansk

Vigtig oplysning: Garantioplysninger til kunder i EØO* og Schweiz
De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Økonomiske Område

Suomi

Tärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille
Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saatavissa sivustollamme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan.
*ETA: Euroopan talousalue

Polski

Ważne: Warunki gwarancyjne obowiązujące w EOG* i Szwajcarii
Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (Plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy

Česky

Důležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku
Podrobné záruční informace o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor

Magyar

Fontos figyelmeztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára
A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájlt is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviseleti irodával. * EGT: Európai Gazdasági Térség

Eesti keel

Oluline märkus: Garantiiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele
Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval prinditav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond

Latviešu

Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē
Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzu, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona

Lietuvių kalba

Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje
Jei reikia išsamios informacijos apie šį „Yamaha" produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdintinas failas) arba kreipkitės į „Yamaha" atstovybę savo šaliai.
*EEE – Europos ekonominė erdvė

Slovenčina

Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku
Podrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor

Slovenščina

Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici
Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor

Български език

Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария
За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посочения по-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространство

Limba română

Notificare importantă: Informaţii despre garanţie pentru clienţii din SEE* şi Elveţia
Pentru informaţii detaliate privind acest produs Yamaha şi serviciul de garanţie Pan-SEE* şi Elveţia, vizitaţi site-ul la adresa de mai jos (fişierul imprimabil este disponibil pe site-ul nostru) sau contactaţi biroul reprezentanţei Yamaha din ţara dumneavoastră. * SEE: Spaţiul Economic European

http://europe.yamaha.com/warranty/

YAMAHA

LIMITED 1-YEAR WARRANTY ON PORTABLE KEYBOARDS (NP, NPV, PSRE, EZ, DGX230, DGX530, YPG AND YPT SERIES)

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